Sequence List

<110> Rosen et al.

<120> 50 Human Secreted Proteins

<130> PZ016P2

<150> US 60/262,066
<151> 2001-01-18

<150> US 09/722,329
<151> 2000-11-28

<150> US 09/262,109
<151> 1999-03-04

<150> PCT/US98/18360
<151> 1998-09-03

<150> US 60/057,626
<151> 1997-09-05

<150> US 60/057,663
<151> 1997-09-05

<150> US 60/057,669
<151> 1997-09-05

<150> US 60/058,667
<151> 1997-09-12

<150> US 60/058,974
<151> 1997-09-12

<150> US 60/058,973
<151> 1997-09-12

<150> US 60/058,666
<151> 1997-09-12

<150> US 60/090,112
<151> 1998-06-22

<160> 206

<170> PatentIn Ver. 2.0

<210> 1
<211> 733
<212> DNA
<213> Homo sapiens

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aattcgaggg tgcaccgtca gtcttcctct tccccccaaa acccaaggac accctcatga 120
tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg 180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg 360

agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
gactctagag gat 733

<210> 2
<211> 5
<212> PRT
<213> Homo sapiens

<220>
<221> Site
<222> (3)
<223> Xaa equals any amino acid

<400> 2
Trp Ser Xaa Trp Ser
1 5

<210> 3
<211> 86
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3
gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaaatat ctgccatctc aattag 86

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic sequence complementary to the SV40 promter; includes a Hind III restriction site.

<400> 4
gcggcaagct ttttgcaaag cctaggc 27

<210> 5
<211> 271
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120
gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 6
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
<211> 12
<212> DNA
<213> Homo sapiens

<400> 8
ggggactttc cc 12

<210> 9
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
ccatctcaat tag 73

<210> 10
<211> 256

<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

<400> 10
ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
caattagtca gcaaccatag tcccgccccc aactccgccc atcccgcccc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggctttttg gaggcctagg 240
cttttgcaaa aagctt 256

<210> 11
<211> 1110
<212> DNA
<213> Homo sapiens

<400> 11
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cctggggttt ccacccacat ctggggcaaa ccagaccccc aagtcactga catgtcggtt 180
tttctactaa tcacgttggc tttggcaatt ctgtatataa taagaagtat tgtgttctca 240
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ggccaccctc ccttcatgcc ccatgggacc aggcagcagc atgggagggg gcagcttcca 540
gaacaccctt ctgctagggg ctkctggcct ccctgctggc acggccacat ccatggtctg 600
agtgtgtggt tggaatgttt tatcaacacc agtcctcaca gcttccccag atgagcgaag 660
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ggcggggtcc cgcttcttgc ttccttgggc atttgctgta ggtgctgggt ttcagcctgg 1020
aagggtgcag cctctgcact aagtctggtt tggtgaacgt tcatggcccc caatataaac 1080
agtgttctgg gcgttctttg tgactctcga 1110

<210> 12
<211> 936
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (294)..(294)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (298)..(298)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (925)..(925)
<223> n equals a,t,g, or c

<400> 12
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aagtaagatg agaaataaag aaagcctttg taaggtggtt ttaaaagcct tatatgcaaa 120
ccttttaatc tgtgtttctg caagtgccat ccttgtacag tgttaagagg gtaacatggg 180
ttacctttgc accagcttca gtgttaagct caccctgttc tttgaagcac ccatgtcagt 240
attagaagaa taggcagcag ttccttagtt tacatatgtt tgkgcaatta tttnctgnac 300
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tttgcattca tttaatttta ggtcaaataa cattttattt atgtggctca ttttatattt 420
cctaatttta tttatttcat actgtagtgt acagtattat agttcttcaa tatatagata 480
tattttagta aaaaaggaac atgacgttga tcatttgggc aaattttacg taaagagaag 540
agcatttatt gtgttttgga acattaattg tgagatggga tttttcaatt ttattatttt 600
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tgaaaacact gtattttcga ctgaaaattc cactttcttc atcttgtttt ttagctaaaa 720
agagggactg ttaaatacaa tgtatgatac catgacaaaa atctttcctg aattgtcttt 780
gtaaaagtat tattgaattt tcaatttgta atttcttttg aaaatgacca tgctcgaata 840
aaaatgtagc caaactaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaaaaaaaa aaaanaaaaa aaaaaa 936

<210> 13
<211> 921
<212> DNA
<213> Homo sapiens

<400> 13
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cctgcgcctg ggccgcgggc agggggcggc ggaccgcggg gcgctcatct ggctctgcta 180
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aagatgggtt tattttgatc caaccattgt gtctgtggaa attctgaccg tcgccctgga 360
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agaactcaag aaaatgcatc agaaagaaac cagttcagtg aagaagtttc agtgaacttt 660
caaaaccagg cacgagccat tatctaactt catgaaccag aatgaatcaa atctttttgt 720
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acctgtttca aattggtttt aaggcgacca gttttcgttg tattgttgtt caattaaatg 840
gtgatatagg gaaaagagaa caaatttgaa tttgtaataa taaaatgttt aattataaaa 900
aaaaaaaaaa aaaaaaaaaa a 921

<210> 14
<211> 2541
<212> DNA
<213> Homo sapiens

<400> 14
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aaagagaagt cctctgaagc cttggagttt atgaagcggg acctgacgga gtttacccag 120
gtggtgcagc atgacacggc ctgtaccatc gcagccacgg ccagcgtggt caaggagaag 180
ctggctattg cagcctgttc ccggggcgct tgcttcctct gcccgttctc tatacagacg 240
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<210> 15
<211> 1046
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (20)..(21)
<223> n equals a,t,g, or c

<400> 15
agtgaatcct gagtggggtn ntctttagcc taaacctgga gtcaccacag agcttttata 60
aacagtgaga aacctactac ttcctacaga aactgtgctg tctgcaaagc tcagcgtctg 120
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gaccctacgc ccctctgttt gcctttgtca gtagagacct tctcacatta gggattcatt 660
ttttccaaga ctgtttgcta aggtgtgtgt caaacttcct cccagagcag tgacatggat 720
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<210> 16

<211> 982
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)..(4)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (30)..(31)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (149)..(149)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (940)..(940)
<223> n equals a,t,g, or c

<400> 16
tcgncccacg cgtccgcgga cgcgtgggtn nctaaccttt ggtttgcgga cggtcgggtg 60
tattctccgc cgcccccacg ccctcgaggt ccccgccacc gaaccagcgg cggaccggcc 120
cgcgcctccc gcggcattcc cgcaccggnt cgctcctcgc tggggcggga cctggcctgg 180
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gaaacttctt caatgctttt acagtgtggt ggaactggta gagaaggatg gctcagtgtc 540
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ttaattttag gccatgcagt ggaacctgtc acctaatggn actgcattct gaatggaaaa 960
aaaaaaaaaa aaaaaaactc ga 982

<210> 17
<211> 3091
<212> DNA
<213> Homo sapiens

<400> 17
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ccaggaaggt gcttcaatat tggatattca cacagagccc agtttttcaa gtttgctttc 180
acagtcatcg tatgctgaca tgggtgttcc acttcctgca aaaaacttaa tatttaaaga 240
tggtgtctta tcagaakgga gtggacggtc accttcctca cttcttattg ctaatctcca 300
tttgcaataa tttggttaca ccatttgttg ctcacacttt ctgccttttt tctttcttaa 360
cgttagcttt atagtgtcag ccactaaaaa gcatcctgct gctgcagtgc aattcttgct 420
taactaatat taaaagttgg ggaacatatt catgttttct gaagttttgc tcattattgc 480
acatcttatt gcgacaaagt gctttttagc agccagcact gtatttttta ccttgagaca 540
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tttataagca gtcactatga aaattgcaat ggtaatttta tatgttagtt tatcaaacat 660
aaatcttgtt taattttata ttttgttacc tatactttgg gggatcaagg gaagagatgg 720

aactcttcct ctgaaaaggc ttcttggtac ttaaagtagt aaaactataa aacaataaac 780
atccagtatt gagagatgat atgatagggc attatgaatt cctatgggtg tctgtaaatt 840
atgtatgtca gttggacatt gtagaaggta tgtaaatcag catagttgtg tataacttaa 900
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gatcagaatg ctttagtgat aaacctactt tgaagacata ctcttaagca atctggatct 1260
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aacatatatc taaaacactt aaaatgttag gaagtttggg aatgttataa cctaaacgtt 1560
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ttttccaata attgatattg tacattccta gtgccattag gtatgtatgt atgtaacttt 1920
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gagagaaagg aggaagaaat agaacctaat agtgatcatg aattttaggg aaagtaccga 2220
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ccgagctgaa gacctctggt cctcttaagg agggagagtg catttttaga gcttttagca 2340
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gaagaaatgc aactttatat caaaaaatgt catctgattt cctttgtttc tttttaaat 2760
tatgtaatca gatgatttta tgttttttt tcaggggagc ggaatattgg tttcttttac 2820
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caatttgtat ttaaggattt taaaatacca aactgtaact gagtacagtg gatcgttttc 2940
tgttaggatg ttaatattat acaatgaaat ctataaagtg ttgtcaattt gattattgac 3000
acatataaca tgtttacaaa taaactgtgg tattgatcaa gttactatga aaaaaaaaaa 3060
aaacccgggg ggggccccgg aacccaatcc c 3091

<210> 18
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (398)..(398)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (780)..(780)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (787)..(787)
<223> n equals a,t,g, or c

<400> 18
gaattcggca cgagctcgtg ccgaattcgg cacgagtcag attgaaggtg gttggttttt 60
attattattt agtgtgattg atagtatcta gaatggcagg tggtgcataa aagttaaaga 120
gaggggaaag attacttagt ttggttatac agttataaac accatgcagt gtattcggtg 180
gactgtgcta tttctgttta tcctttgggt tttggttttt gtttttttt ttgccttcac 240
agtgagactg caaatgattg ttctcataac gtatattatt aataaatgtg gtcctataat 300
ttatactgaa attaccttag gatatttttg cataatactc tcttactgct tacattctat 360
aaatttttca cgtgataatt gtctttgcgt aactgggnaa aaatgccgaa taacttcctt 420
tattatctgg aaaaattaaa tttgttcatt tatattttct acttactaaa ttgagttttt 480
aaaaagactt agtgtgacat ttgacagtgt ctttcaaacg aacttctcta acaagtttat 540
agttattttc ctgtttcaac actattagaa gtcttataaa ttatgctaat tagcatggca 600
gtcatgttac acactcttaa cattgccaaa gaactgttga tttcgtttga gaaaaccctg 660
ggactgtgtg tgtgtaggtt ttgttttgat tttaacaacc aaaaatagaa ataaaattag 720
aactgcgttt taagttctaa aaaaaaaatt taaaaaaaaa aaatttaaaa atttgggacn 780
aaggcgnggg ggtccc 796

<210> 19
<211> 822
<212> DNA
<213> Homo sapiens

<400> 19
gatttaccac ctagaaatgg tgtttttaaa tttcttaata tatctccttc ttgtcttttt 60
ctatatatct ttatttcata gtcgagacaa ttttatactc tgaattttta tcatataagt 120
atctacccac attatcagga atgctttgta agcatcattt taatggcttc aaaatagtct 180
atgatttaga taacgatgat ttggccattt ttgtggtcac ctaccactta ttggagacat 240
attatattct gagaatatta tgccatttat aggcattaat tccaatatgc aaaagaactt 300
tgaaatgaag gcgttattat tcccaatttt acagatgctg aaactgaagc tcagagaggt 360
taagttgccc gaggccatac aggacaatag gggcaaagat ggttttgaat caatggatgt 420
ctgacgacaa aggccatgat ctcaccactg cactgcactg tctcctgaag ccctttgtgt 480
gaaatgatta aatacatcat gattatgtca cacttcactt acccttctcc aggtagttga 540
acatctggat gattttacat cgtcaaatac aaggttgtta acaattaaag gataaaacag 600
ggtgcggccg gaaaggcggc cgccccctcg cccatcatgc aatgcacatt cgtggggaac 660
ctggcgctaa gccattcgta gatgacctgc ttctggctcg gggtttcata tgtagcagag 720
cagctccctc gctgcaatct attgaaagtc agccctcgac acaagggttt gtaaaaaaat 780
aaataaataa aacaaaaaac aaaaaaaaaa aaaaaaactc ga 822

<210> 20
<211> 657
<212> DNA
<213> Homo sapiens

<400> 20
cgcggcacga gacgaaatga ttcagttctg gacatggcaa gacatgtgcc actctatcgg 60
gcactgctgg aattgcttcg ggccattgct tcttgtgctg ccatggtgcc cctattgttg 120
ccccttttcta cagagaacgg tgaagaggaa gaagaacagt cagaatgtca aacttctgtt 180
ggtacattgt tagccaaaat gaagacctgt gttgatacct ataccaaccg tttaaggtac 240
tatatacaat gttcatttct cttgagtttg cctctaacaa tgtttttaaa ataactccat 300
gggtgttttt gtttttcagt gatatgtgct ttttaaaagc mtatacaccc tcggctgggt 360
tgcggtggct cacacctgtg ggtccccagc actgtgggag gccgaggtgg gatggatccc 420
cgaggtcggg agatcgagac catcctggct aacatggtga aaccccgttc tactaaaaat 480
accaaaaaat tagccaggca tggtggcggg cacctgtggt cccagctgct cgggaggctg 540
aggcaggaga atggcgtgaa cccgggaggc ggaggttgca gtgagccgag atcgcgccac 600
tgcactccag cctgggtgac agagagctcc gtctcaaaaa aaaaaaaaaa aaaaaaa 657

<210> 21
<211> 632
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (557)..(557)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (571)..(571)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (608)..(608)
<223> n equals a,t,g, or c

<400> 21
ggcacgagcc gcagctcccc tcttccttcc tctgcagacg ctggcgctgt ctgccggagg 60
tgttgcccaa aaggccctag tggggcgtgg tcagctccac ctcctgatcc tgtgtgtcct 120
ccgacatgct gctgattcta gtgacccctg tccccaccag gctcagagcc agaccgcgcc 180
tggaccttct tgttctgact ccacgtgcct gcccggcctc cagggtgcgg gggcgccttt 240
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cagcccctgg cccaccccac cctgccggcc ctgccttctc cagtatttcc cacatggcca 360
cgactcctca gtcactagag cctcctgctg ggaacagtgt cccccagagc ctcatgtcta 420
tcctagaccc tgcaagcagc tgggtcccca agagtgcatc tccccctaga gttgcctgcc 480
catgcccacc tgctttgtaa ccttcccagg agattcatgc ttgctctgca cagcagggyt 540
cgaggsccag gscatgnama sggaaytgcc ntcaggtttg ggtcaractg catcctgggg 600
gcatctgntg gaaatgtgag cacacaaacc aa 632

<210> 22
<211> 865
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (365)..(365)
<223> n equals a,t,g, or c

<400> 22
gaattcggca cgagtgccct cgtatctaca tgctcaccta taccctcacc cgacttttcc 60
ctcctcctca ccccatcaaa ggcaataatg cacctgtttt tattcatctg ggcctttggt 120
cttccccttc atatttcccg agacctcgct ttcttctttc tcttgtattt tttatttttc 180
tatctcttat gtgtccttct ctaaaagtta taaacatgca caaaatcttt ccatctcaaa 240
atataatacc ctttacctgg tgtcccctgc aggccatctt ctttatttat ttacttttgc 300
gccaggtctt cctctgaagc ccaggctggg tgcgtacgcg atcatggctc actgcagcct 360
cggantcccg ggctcaagcg atcctcctgc ttggaggatc agattttta tccttgcaga 420
agtgataata tggcttcttc ctcatctcct aaacaccagt catctgacat acactgcaga 480
tctaaaatgg gccttacgtg ttctgccctt ccttgcctac ctgttgagct tgcaccgctt 540
ctgtgagtct ccccccaccc acaagagatc cttcttcctt cgcgctccac taacccgaca 600
taaatgttta tcatataaag ttttccgttg cactcttgtg tttatgtctc ctggcttctt 660
caccaagctg tgtgacagct gggccctgtc gcctccttcc tcgtatatgc agcgactatc 720
gcagagccgc ttaatctttg ttgaaggcag ctgcggttca gccctgaggg ccacgggacg 780
gacgccactc attcagycct accgggggcg ctgtggcagc cggcattggt tgccgtgccc 840
tccgcttgtc tcgctcagcc ctcga 865

<210> 23
<211> 1222
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (772)..(772)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (796)..(796)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (823)..(823)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (855)..(855)
<223> n equals a,t,g, or c

<400> 23
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ttctacttcc taatttgtgc cagaattgac tagtagacgc tatgaatgca tcatgctctt 120
tggcccattt cgaacactca ggtatgtctg tactcttagt tcatctattc atcattgttt 180
ctacagttcc ctcatgcttt aaaaaatata tggcttttat aatttatcca gctttttctt 240
gtcattttaa taagagtatg tgtcttatac aactactaca ttcatcccag aagtagaagc 300
aaactattat aatcccatta tttttattcc tactattctc ttttcagaat ttcttttaga 360
tattccttgg atagttttat tcaatcctcc atggctttca gcttatctta tgttctatct 420
tttggttcat attctgcatt ctggataatt cttcatcttc actttctagt ttgttgatat 480
tccttttggt gactataagc tgctctttaa aatggtcaat aatgcctaag atgtttatta 540
tcttgccctt tgcagaaaaa aattttcagc ttttgctctg gaatgatttt gcatctcttc 600
caccaaactt ccagtgtatc aatggccaga aaataatcta tatgttaatt tgttaatttg 660
atggttcatg gttcaaggct gtataattta aaagtttgaa gtcaaacaac acatgatggg 720
ataatcctga tgttacagat tctcaaggga aaatatgttt ttgttttttc tnccaattgt 780
tctartattt acaganaaac ttcttaatta tactgggttg gtnaataart atttttcttw 840
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caaatttggc ccgggcgcgg tggctcacgc ttgtaatccc agcactttgg gaggccgagg 960
cgggtggatc acgaggtcag gagatcgaga ccatcctggc taacacggtg aaaccccgtc 1020
tctactaaaa atacaaaaaa aaattagctg ggcgtgatgg cgggcgcctg tagtcccagc 1080
tactcgggag gctgcggcag gagaatggcg tgaacccggg aggcggagct tgcagtgagc 1140
caagattgcg ccactgcact cccgcctggg ccacagagcg agactccgtc tcaaaaaaaa 1200
aaaaaaaaaa aaaaaaactc ga 1222

<210> 24
<211> 1421
<212> DNA
<213> Homo sapiens

<400> 24
ggcagaggga gcggagagcg tgctaaccaa tgacttgagg gagtaggggg ccgggtttgg 60
gccctcagtt gctaagggct acccgagtgg gaagcggttc aagagatggg gtgaagggtg 120
gttcaccggt tcttcaagtc ctcagccttc tggcccgmgg aagttaagca accaagaggc 180
gggcctaaga ccggaagcag gaaggagggc gcaggaagca gggcgccgca gcctgtcgta 240
cggtccttct gtgggtctgt cggtgccgag ggcaggatgg agaagctgcg gctcctgggc 300
ctccgctacc aggagtacgt gactcgtcac ccggccgcca cggcccagct ggagacagca 360
gtgcggggct tcagttacct gctggcaggt cgattcgccg attcgcacga gctgtcagag 420
ctggtgtact ctgcctctaa cctgcttgtg ctgctcaatg acgggatcct acggaaggag 480
cttcggaaaa agttgcctgt gtcgctgtcc cagcagaagc tgctgacatg gctgagcgtg 540
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cgctggcttg tcatcgccct catccagctg gccaaggctg tactgcggat gctcctgctg 660
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aaaatctact tctacagttg gggctgacag actcccggaa ggagggtgtg gggaggggtg 1320
ggcagggagc ccctcttccc taataaaact gactccggca gcaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc c 1421

<210> 25
<211> 638
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (597)..(597)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (628)..(628)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (630)..(630)
<223> n equals a,t,g, or c

<400> 25
cggcacgagt ttatttccaa ggtaagtagg ggtagactag aatggacata gcagctcctg 60
tcttatttgc tttaaggctg caatttctgt tcattctctt acccatgcac tttgaaattt 120
cattgctctg caaagtttcc actgaaacat caggtcgaga agacaaaatg tagagaatag 180
caaaccaaaa atatactctt cagagagccc agtgatggaa attatattct acgtaaggcc 240
attaaccagc tacaaagcag tagcagctaa ctaacctggg gataaaagac catctgctgg 300
ctgcatactg attccaagca taatgggtct cccattccca cctccacctg gctccacaat 360
tccctgcatg tcttttaacc tcctcttctt cagactcaat gcttccttat gcaactccag 420
aaacccagta tcttatttaa acacacctgc catttgaagt agacaggtca aggagaggta 480
ggtccttctt ctggtataac ctcaggttca tcatgggaat atagataagc tgtttcactt 540
tcttggccta tttactctcc tgtaaaaaga gggagttgca ggagattctt caaagcnaaa 600
ctgaatattt tgatggattg aaaaaaanan aaaaaaaa 638

<210> 26
<211> 749
<212> DNA
<213> Homo sapiens

<400> 26
aaggccaagc caatggtaga agaaaacagc tttattgaag gggcagtgtt atagctccag 60
ccctgttaca actctgatta ctcctgcaca gcaggctctg gcagagacta gcagctcagg 120
gcagttttgc agtcatttat akswaytygg cacgagggca gattaagggg tgatttgtgc 180
aaaaatttct agggaatggg taataacttt tgggtcatcg agtcaatgcc atggaagaga 240
ggggggataa ccccctggtg ttgcgatggc aacggtaaac tgacatggca actgatgagc 300
gtgtcttacg gaaagctcat tccaccccag ccctgtttca gctagtcctc aatttggtcc 360
agtgtccgag ccctgcctct ggagtcaagt cccacctcct acctcataag gagagacata 420
aatcaatgga atagaatcga gagttccaga aataaactca tacctcgatg atcaattgat 480
tttcaacaac agtgccaaga ccattcagtk gggggaaaga atcatatttt caacaaatgg 540
tgccagataa cgacatccaa aggagtgcaa ctgggcccct gtctcacacc atctacagaa 600
attaagtcaa agtgcctcaa acactaagag ctaagactat aacattctta gaagaataca 660

gggttacctc tttatgatct tgatttggta attgattttt agataacact aaaagcacaa 720
gcaacaatag gaaaaaaaaa aaaaaaaaa 749

<210> 27
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (290)..(290)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (768)..(768)
<223> n equals a,t,g, or c

<400> 27
aggggcmckg mctcccaccc accccatcac cagctttcca cttggaggcc ccctgtgccc 60
tgcagcctca gggtargccg tgggtcacca ggctggagar ggcccctgcc ttggccaggg 120
gtgcgaggtg acccggctgc attgctgggt gggagctgct gtctgttgtt caggggcctg 180
gccccgcccc tccccccga ccccgacctc gcaaagsgca ctcccgggca gggtgtggtc 240
tggaargcgg ggctggcggg gacatgggtg ttctgcatct cctagcgcan ttcctgctgg 300
tggktggaag ggtgcctggt ttaggcgggg tcccaggagg gggtgagggg tgacaccttg 360
gggaggggggc ctkcaaaggr cactgcctgt ggccacgtgg tgtctgtggg aattggtcct 420
ggggactttg atgggtgttt gcggccccag ttgccgccct gctccctctt ccagggctcc 480
tggcttgggc cccccgaccc ccctgctcag ctcgggaaaa tccccgtgcg gctccagccc 540
cgggtcacgc tcaggagcga tgagaggggc gccctggcca cgcttcagga aagcctgtgt 600
ctgcgcgcgg ggcaaggggc tccacgacaa aaggacaaga tttgacttaa attaagtttt 660
tcccttgagg atattttcat tttctttaaa agaatataat tttcttctaa gatcttggwa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaata cgtaggggggg gtcccgtnac ccaattgtcc 780
tgacgtgg 788

<210> 28
<211> 941
<212> DNA
<213> Homo sapiens

<400> 28
ggcacgagat tttggcaagt gctgttatgt gaacaccacc atcacaatca agatagtcta 60
tagttctagt acccccctgcc ctgaaacttg cttgttctgt ttagtcagct cctctcccca 120
ccaccagccc ttgtcaactg actcattttc tgtctgtata gtttatatca tttccagaat 180
gtcatataaa tggaattcta gagtatgttt cctttggagt cgcacctttc acttaatgct 240
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gtagtaatct gtcatatgga tgttccacag tttgtttatc catttatcac tggtggggat 360
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ttgtgtgtcc acattgtckt agtaaataac taggagtgga attgccgggt tgtatggtaa 480
cagtatactt atctatgaaa aactgacaga cttttctaaa ataactgtac cattttacat 540
tcccaccacc agtgtatgaa agtcccagtt ccttaacttc actgacaatt ggtatgtcag 600
ggtttggttt catttttatt ttgttgttag gatttcaaag ggttatagcg ggatttcatt 660
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catttgccta ttttcttttg tgaactatgt tcaaatcttt tgtccatttt tttaaaacct 780
ggattgtttc ttattgattt ttgagagttc tttatatgtt ctggatagat atctttgtca 840
gttatgtgtt ttgcaaatat tgtataccat tatgtggctt gtgtttttat tccattaaca 900
gtatttttca cacaagaaaa aaaaaaaaaa aaaaaaaaaa a 941

<210> 29
<211> 835
<212> DNA
<213> Homo sapiens

<400> 29
ggcacgagca caaaccctag aattcccagg gtacacctgt tagttgctaa agatatttca 60
agaacagtta tctctctggt aaagtttatt tgctcctgtg caaggtttca tttctttcaa 120
cagagtgaaa caacttgggg tacaatgtta ttgttagtat attttcttct tatgtctgta 180
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atccgacagc agtttacccc aaaagaatgc cccctgtcag caggaagcag ctaagaccag 420
tcattgtccc atattctcat ggcagttaga tacacctctt cagagagggg aaataatatg 480
ggagtgctag gaagggaaga acatggctgg ctagggctcc ataccctggc tagtcctggc 540
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tcccaagacc accctggctg gacattgaga ggaacacact gacaggcacc agcatgctgg 660
taggccactg actgacagaa caatgcagag tttggctggg gcagctggag gacagtctgg 720
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gtagctattt ccactcaata aaaccttgca ctcattaaaa aaaaaaaaaa aaaaa 835

<210> 30
<211> 553
<212> DNA
<213> Homo sapiens

<400> 30
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agaagccatc aatgagagga tccaggaggt cgccggctcc ctaatattta gggcaataag 180
cagcattggc ctggagtgcc agagcgtcac ctccaggggg gacctggcta cttgcccccg 240
aggcttcgcc gtcaccggct gcacttgtgg ctccgcctgt ggctcgtggg atgtgcgcgc 300
cgagaccaca tgtcactgcc agtgcgcggg catggactgg accggagcgc gctgctgtcg 360
tgtgcagccc tgaggtcgcg cgcagtggca acagcgcggg cggaggcggc tccaggtccg 420
gagggttgcg ggggagctgg aaataaacct ggagatgatg atgatgatga tgatggaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaa 553

<210> 31
<211> 1346
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (637)..(637)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (850)..(850)
<223> n equals a,t,g, or c

<400> 31
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ccgccccaga tcttagtcca cccccaggac cagctgttcc agggccctgg ccctgccagg 180
atgagctgcc gagcctcagg ccagccacct cccaccatcc gctggttgct gaatgggcag 240
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tccctgctga tggcaagagc agagaagagt gacgaangga cctacatgtg tgtggccacc 660

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aacccggatc ctgcagargg ccccaagcct agaccggcgg tgtggctcar ctggaargtc 840
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cactatgagt gctataattc tgaatataat gtctcttaat tagaattcat acaagaacca 1320
aaaaaaaaaa aaaaaaaagg gcggcc 1346

<210> 32
<211> 626
<212> DNA
<213> Homo sapiens

<400> 32
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ttgggtggtg ttgcttttcc tttccttttc cctttgagat ttttttgttg ttgtttcctt 120
tttgtatttt actgatatca ccaggatagt ttactctcct tctagctttc tgcttaccgc 180
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gttccagcag gtcccccacc ctcccctcct cctcctactt ctcctcttga cagcgaggac 300
aggaggggga caaggggaca cctgggcaga cccgccggct ctccccccac cccaccccgc 360
ccctcacatc atactccaat cataaccttg tatattacgc agtcattttg gttttcgcgg 420
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ttgttcccta tgcaaaaaaa aaatgaaaat gaaaaaaggg ggattccata aaagattcaa 540
taaaagacaa aaaaaaagaa aaaagaaaaa aatgtataaa aattaaacaa gctatgcttc 600
gactcttaaa aaaaaaaaaa aaaaaa 626

<210> 33
<211> 1018
<212> DNA
<213> Homo sapiens

<400> 33
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ataggccttt tgtcttcaaa tacaacaggc ctccactgac ccatccctca aagcagaagg 120
acccttttgag gagagtacag atgggattcc acagtggggt gggtggaatg gaaacctgta 180
ctagaccacc cagaggttcc ttctaaccca ctggtttggt ggggaactca cagtaattcc 240
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gtttttctag tagtttatct cattttaccc tattcttcct ttaaggaaaa ctcaatcttt 420
atcacagtca attagagcga tcccaaggca tgggaccagg cctgcttgcc tatgtgtgat 480
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gtgtgtgtgt gtgtgtgtgc gtgcatgtgt gtgtgtgtgt atgtgtgtga ataagtcgac 780
ataaagtctt taattttgag caccttacca aacataacaa taatccatta tccttttggc 840
aacaccacaa agatcgcatc tgttaaacag gtacaagttg acatgaggtt agtttaattg 900
tacaccatga tattggtggt atttatgctg ttaagtccaa acctttatct gtctgttatt 960
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<210> 34
<211> 767
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (292)..(292)
<223> n equals a,t,g, or c

<400> 34
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tctgggggta ggggggagct ggaagctgga ggtgtggcag ccatggctct aggagccctg 120
agcctgaatg ctgcccttgc accctgggcc tcctcccctg gcccagacct ccccattctr 180
aaagagaagc agcccctctc tagttacccg tyttctgggg gagccaggtt ccgattaccc 240
accacctccc tgggcacacg tgaaagttct tcatttacca cctgtyttgt gncaggagcg 300
ggattgtgaa ggtcatggat gactaccagg tcatggatga atcctctaca acctcagctt 360
cgagatgaac ttcaatgaca agtgagtggg agcttggccc ccatgccagg tgcggggtgg 420
agcatgaggg gagctgctga gctgcagagg ctcccaaatg ccccagctgc cacagtctgt 480
gcaatctccc cagaaacacc ccactgagat ttcagaggcc agggctccac acatgggccg 540
ggaccagcca gggccaggtg gccgaaggaa ttcatttggg cctcttggcc tcagctgctc 600
cccaaccctg tctctgtcct gtcaatggcc tggcacatgt tttgcttgtt gtttttgaa 660
acagagtttt gctttgtcac tccagtctgg gcaatagtga gtcggtcaaa ttccatttcc 720
ccctccgccc catacctctt caaatgttta aaaaaaaaaa aaaaaaa 767

<210> 35
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (364)..(364)
<223> n equals a,t,g, or c

<400> 35
agatttttt ttttttaatg tccggagaag gaactctcag attactctcc tccctgcaaa 60
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tttgaatgtg cgcaaaatga ttaccagtca tctgagggag gccaaattaa aggtgcatct 180
gcaagaggag ctctggcctg acatcgctaa ctgagagcag ccctggcgga aaggtgctga 240
tcccgggagt agagcgactg ctgcggctcg agcggggtgt ctgcgtgccg agcctcactg 300
acaatcgggg aaaatgcaga cgcccagcaa aacgacggca acagaaggct cctcggggga 360
gggntgctgc aggcctgtgg cgtaagatgg ttccgctcta cgcgggktga cgggaaaccg 420
cagaagtggg tgtgaggtgt tggttggggg gcaaactctt gtacagtggc gagtgtaggg 480
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gcggcagcga agaccccgat accaaccaat gtcatctgtc ggggggcggc gggcgcgacc 600
gtcccggata ggagcgcggc ccgggtccgg gctggacagg gcccaggagg cgaagaaggc 660
ctcccacagc catcaacccc acccaccatg gccggcgcag caggccaggg acaagccccg 720
ctccttccga agctagagac agagaaactg aggagctgaa cgcagcaatt tcctcgcccc 780
gacccccaca ctcccgacag cggaacaagc cagactgaaa aaaaaaaaaa aaaaactcga 840

<210> 36
<211> 1148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (820)..(820)
<223> n equals a,t,g, or c

<400> 36
atcagaccat cagaaggatt tgtataaaga gtgactctcc tatgaaggta aaggccaccc 60
ctcttcagtt ccagtgactg agatacattt ttccaatcct gggggcaaat acagacacag 120
caagttcctt cttccctttg gaaatttggc agctgccttc accagtgagc acaaagccac 180
atttcaaagg aaactgacaa attatcccca gctgccagaa gaagaaatcc tcactggacg 240
gcttcctgtt tcctgtggtt cattatctga ttggctgcag ggatgaaagt ttttaagttc 300

ataggactga tgatcctcct cacctctgcg ttttcagccg gttcaggaca aagtccaatg 360
actgtgctgt gctccataga ctggttcatg gtcacagtgc acccccttcat gctaaacaac 420
gatgtgtgtg tacactttca tgaactacac ttgggcctgg gttgcccccc aaaccatgtt 480
cagccacacg cctaccagtt cacctaccgt gttactgaat gtggcatcag ggccaaagct 540
gtctctcagg acatggttat ctacagcact gagatacact actcttctaa gggcacgcca 600
tctaagtttg tgatcccagt gtcatgtgct gccccccaaa agtccccatg gctcaccaag 660
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acgaggtgtt cagcttgtca cagtccagtc aaaggcccaa ctgcgattgt ccaccttgtg 780
tcttcagtga agaagagcat acccaggtcc cttgtcaccn aagcaggggc tcaggaggct 840
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gatatgattg ggtccatgtg atcctcaggt ttggggtctc ctgaagatgc tatttctaga 960
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cttttgagaa agagaaacct atagcaactt catgaattaa gccttttttct atatttttat 1080
attcatgtgt aaacaaaaaa taaaataaaa ttctgatcgc ataaaaaaaa aaaaaaaaaa 1140
gggcggcc 1148

<210> 37
<211> 1367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (15)..(15)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (28)..(28)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (480)..(480)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (796)..(796)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (896)..(896)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1243)..(1243)
<223> n equals a,t,g, or c

<400> 37
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cacgcgtccg tgtttctact ctttgactat tatgaataat gctgctaaga acattaatgt 120
acaagtttct gtgtggacat atgctttcat ttctcttatt ttcattttat tccacctagg 180
agtggaattg ctgggttgta tggtagtgtt atgtttaact gtttgagaaa ccaccaaatt 240
atttttgttt tctttttaag atgaggtctc gctatgttgc ccaggctggt cttgaactcc 300
tggcctcaag tgatcctccc acctcagcat cccaaagcgc tgggattaca ggcatgaggc 360
atgccaccat tacacacccg gccagccacc aaattatttt ccaaagcagc tacaccacct 420
tacattccca ccagcagtgt atgagcatcc catctctcta cacctcraca gtaattttgn 480
gtctgtctaa tttactatag ccattctagt gggtaagaac tcacacacac ttctgcttct 540

tcttggcaat gcatccatgt ggagccatgc tggggctttc caggactggc tgactttcac 600
ctccacttgt agaaagaagg acatatctgg caatactgta gccccagagc ttggtccagg 660
gcctagaact aaggatgcac ccctgaatgg ctcctggatg gataatgggc tgggtgaggg 720
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rtctgggggc tgggganggga gatgtgcata tctaaggaca ccacccaccg tatgataggg 840
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taagcttctt gaggcctccc cagaagccaa gcagatgcca gcnccatgct tgtacagcct 1260
gcagaaccat gaaccaatta aacctctttt ctttataaaa aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag ggcggcc 1367

<210> 38
<211> 921
<212> DNA
<213> Homo sapiens

<400> 38
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atcacagcta tgaatcgtgg tccaccaaat aagtgcaaca gagtttatct atttttaaat 120
ctttgccatc actactaatg ttgcagcgag tgttttcttg tacatacatc cttgcggaag 180
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cttcacatca tcttctccat gtctccttac cttcctttgc ctctgtcttg aaaagacact 660
gtgatggcat ttaggaccca cccagctaat tcagtgtgtt ctcatctgca gatccttgat 720
caagtcacat ttgcagagac ctctttttca aataaggtaa catttccaaa ttcctgggat 780
taagacttga tatctttggg tggtcattat ttaacctact acaattgggc ctatccctag 840
gccatgccag cctgggtgat aaagcgagac tctgtctcaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaaaaaaaa a 921

<210> 39
<211> 632
<212> DNA
<213> Homo sapiens

<400> 39
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gccgggttct gccacagctt cccacgtgct tgctgacatg cgtgtgcctg tgtgtggtgt 180
ctgttgctgt gtcgtgaaac tgtgaccatc actcagtcca aacaagtgag tggccctcga 240
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cgggacccgg attgcgtttg ccttagcggg atatgtttat acagatgaat ataaaatgtt 480
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cccacccccc aaaaaagcta cttcttcatt ccgtggtacg attatttttt ttaactaaag 600
gaagataaaa ttctaaaaaa aaaaaaaaaa aa 632

<210> 40
<211> 608
<212> DNA
<213> Homo sapiens

<400> 40
ggtgaagtca tcatgagctt tttccaactc ctgatgaaaa ggaaggaact cattcccttg 60
gtggtgttca tgactgtggc ggcgggtgga gcctcatctt tcgctgtgta ttctctttgg 120
aaaaccgatg tgatccttga tcgaaaaaaa aatccagaac cttgggaaac tgtggaccct 180
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attgcatatt gaaatttttg tttatgatct atgaatgttt ttcttaaaat ttacaaagct 540
ttgtaaatta gattttcttt aataaaatgc catttgtgca agatttctca aaaaaaaaaa 600
aaaaaaaa 608

<210> 41
<211> 877
<212> DNA
<213> Homo sapiens

<400> 41
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ctttactcct gaatgtgagc ctcgctgagt ccgaagccgg tcgcaggcct gggaaaccag 120
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gcagcagaga ggagcaccca ggggccgccg cttggccacg agtgtaggcc acccaggggc 360
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ctaaatttgg acttctgtat gcatgaactc acctcga 877

<210> 42
<211> 978
<212> DNA
<213> Homo sapiens

<400> 42
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cctcctccct ccctcctctg cagccaccct agccacacca gggtcctaga atctgttccc 180
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ggaggctgag gcaggaggat tgcttgagtc cacgagttca agaccagcct gggcaataaa 900
acaagacctc atctttacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaa 978

<210> 43
<211> 999

<212> DNA
<213> Homo sapiens

<400> 43
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accgttttgg tacttatcag ttacattttt tcctcccact ccttcaaccc cttatttact 180
ctatgtgatt ttgagcaagt acttttacat ctaaagatat tttctcatcc ctaaaataag 240
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tatggctgaa tagcactgca ttgtgtatat gtaccacata taccagcctg tgtgacaggg 780
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<210> 44
<211> 510
<212> DNA
<213> Homo sapiens

<400> 44
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gtaatcctat tatgaatata gcaagagtta tttactgcca agtaagaaac agattagtta 120
tggccctggt aatttctgcc cctcccccaa acagcccatg taattgcttc ttttttatct 180
ttcttttcat tttgcctctc atttttcctc tcttcaaagg ccttttttgct acttttgtct 240
ttttctaagt ttttctttat cttgttcttt tctttctgtt gtctcaaatt ctcacatttg 300
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gactgattta gagacggcat ctcgctccgt caccccggca gtggtgccgt cgtaactcac 480
tccctgcagc gtggacgctc ctggactcga 510

<210> 45
<211> 986
<212> DNA
<213> Homo sapiens

<400> 45
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tagaataaaa cttatgagtg acatctggaa agtaaccatg ctaagatggc aagcacactg 180
gaaacaatta ggccacttgg ctttcttttg ctgtattgtt ttataagcct actttacctc 240
ccagtcttgg aaacaagttt tagtttttta ttggtttgga gactagagcc aatagtataa 300
tgttctcaaa ggaaacagac ttgagttgtt ggattagagg aactaaccca acttatatga 360
ttttttttt gtttttgtcg tgtagttatg gcactgtctt atttggaaca tttgcaacta 420
ggggataata caacattttt aactctcatt tgacaaccta ctactaatca cagaccacaa 480
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tcttacgatt acttgggtaa cgctctggag gaccttcctt gagatcccta atatttaaga 600
tatttgatat cttgaagata gtataggata tagagattta ccaaatagga atataaggag 660
tatgttaaaa tgaccagata cctgtttgat agtttactga cctagcagat gtgtggaaaa 720
ggaatcagat cttgattctt ctgggtttat actggttgta aaacagaatg atacagaaaa 780
tgttttcctt gtttaactgg tagttgaaca tagaacttgg gtattataga tcacttttca 840
ctttttggaa tgttttgtat tgaaacttaa taaaacttta acatggcaaa aaaaaaaaaa 900
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aaaaaaaaaa aaaaaaaaaa aaaaaa 986

<210> 46
<211> 747
<212> DNA
<213> Homo sapiens

<400> 46
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gaaattggct ggtggaaaaa aatcaaacat gaagattgca gttttgtttt gttttttttct 180
gcttatcatt tttcaaactg actttggaaa aaatgaagaa attcctagga agcaaaggag 240
gaagatctac cacagaaggt tgaggaaaag ttcaacctca cacaagcaca gatcaaacag 300
acagcttgga attcmgcaaa caacagtttt tacaccagta gcaagacttc ctattgttaa 360
ctttgattat agcatggagg aaaagtttga atccttttca agttttcctg gagtagaatc 420
aagttataat gtgttaccag gaaagaaggg acactgtttg gtaaagggca taaccatgta 480
caacaaagct gtgtggtcgc ctgagccctg cactacctgc ctctgctcag atggaagagt 540
tctttgtgat gaaaccatgt gccatcccca gaggtgcccc caaacagtta tacctgaagg 600
ggaatgctgc ccggtctgtc cgctactggt acagagcttt agctaagcaa aatatcagtg 660
tgtgattaat ctttaacttc catttgtttt tgttactaat tttagattaa aattatgata 720
cattaaaaaa aaaaaaaaaa aactcga 747

<210> 47
<211> 340
<212> DNA
<213> Homo sapiens

<400> 47
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gacccccttgt ccctctttga gggaggggag ctatgctagg actccaacct cagggactcg 180
ggtggcctgc gctacttctt ttgatactga aaacttttaa ggtgggaggg tggcaaggga 240
tgtgcttaat aaatcaattc caagcctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 340

<210> 48
<211> 567
<212> DNA
<213> Homo sapiens

<400> 48
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caggggggcat ggtggtcatc acggtgctgc tctctgtcgc ccatgttcct gctggtgctg 180
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gcttctccag gaagcccagg gcaccatcca gctccccagc ccacctgctc ccaggcccca 300
ggcctgtggc tcccttggtg ccctcgctcc tcctctgccc tcctctcccc tagagccctc 360
tcctccctct gtccctctcc ttgcccccag tgcctcacct tccaacactc cattattcct 420
ctcaccccac tcctgtcaga gttgactttc ctcccatttt accactttaa acacccccat 480
aacaattccc ccatccttca gtgaactaag tccctataat aaaggctgag cctgcatctg 540
ccaaaaaaaa aaaaaaaaaa aaaaaaa 567

<210> 49
<211> 1357
<212> DNA
<213> Homo sapiens

<400> 49
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ccccggaaac caagctagag tgccccacct gctcggccct gccttctcgg atcggatcca 180
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gcccccaggc tgggtcagct cttctgtgga ttgcatggcg tgtgattaaa agtcccatgt 1320
gttcccacac atccaaaaaa aaaaaaaaaa aactcga 1357

<210> 50
<211> 1075
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (79)..(79)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (604)..(604)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (656)..(656)
<223> n equals a,t,g, or c

<400> 50
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acggccgtcg gggccgagna accatgagcc ccaggggcac gggctgctcc gccgggctgc 120
tgatgactgt cggctggctg cttctggcgg gcctccagtc cgcgcgcggg accaacgtca 180
ccgctgccgt ccaggatgcc ggcctggccc acgaaggcga gggcgaggag gagaccgaaa 240
acaacgacag cgagaccgcg gagaactacg ctccgcctga aaccgaggat gtttcaaata 300
ggaatgtcgt caaagaagta gaattcggaa tgtgcaccgt tacatgtggt attggtgtta 360
gagaagttat attaacaaat ggatgccctg gtggtgaatm caagtgtgtt gtacgggtar 420
aagaatgccg tggaccaaca gattgtggct ggggtaaacc aatttcagaa agtcttgaaa 480
gtgttagatt ggcatgtatt cacacatctc ccttaatcgt ttcaatatat gtggaactty 540
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gaangtcacc ccttgctttc gagtgtgaca cactggataa taatgaaata gtagcnacta 660
ttaaattcac agtctatacg agcagtgaat tgcagatgag aagatcaagc ctaccagcca 720
ctgatgcagc cctaattttt gtgctgacca taggagtcat tatctgtgta tttataattt 780
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gatgtttgaa tgatatataa caaaccaaag gatattacag aatattagat tcattattac 1020
aaaaataaaa tacacattga aatactttaa aaaaaaaaaa aaaaaaaaaa ctcga 1075

<210> 51

<211> 1025
<212> DNA
<213> Homo sapiens

<400> 51
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cctgggcgac agggcaagac tccacctcaa aaaaatatat aaaataaagt gggattcatc 120
caagagcttg gacatgatta actagtgtca aggagatatg tttatgccat tattatcctc 180
cttacttggt agggtacaac agaaacagaa caacaaggtg acagcctttt gctcaagtca 240
aaaagaaaat aagtccctca tcttaggttt aaagttgttc attcaggtag tacagacttg 300
catttggaag acttattctt gatcttctgt agctttgaca gcaaggacat cactacaatg 360
ggtacagaaa taacacattc tgatccttgc tgagatcctt gtatgggcct atcttaaatc 420
tagcctattg tctgtcttac cctttgattt ttataagtgg aaaacaggaa aaggctaacc 480
aagcaagagg aaggcataga ttcatcttcc tttcaatctt gactatagtt taaagagaat 540
accatgatct ttctgttcta ttcttggctt acttgaatat ttagccaggt ctctgcatct 600
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aaaaa 1025

<210> 52
<211> 908
<212> DNA
<213> Homo sapiens

<400> 52
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accttgtcac tactttaggc ccattccaca aagcccatct ctggtttgag aattcatttt 120
gatctgtatc tacaccaccc aaagttaggc ctcctataat gtccaaaaca ttcctttcag 180
ccttttttatt tcttactgta ctgtctctta ctgtactgtc tatctgcagt aattgaggac 240
ccataaaatt tagataacta catgtctttc tcttagaatt gtcactcagc ataatgagca 300
tttaacatac aaaggcaatg tactgttttg tgttgatcta tgtaaaagaa tacaattctt 360
ttttacataa ttagtgaaat tttatttttt attaggaaac actaaatagt gtaatatttc 420
tttgctttta aaaaaattcc tggtagcaaa tcaagattaa ataatkgctt cattttcttg 480
agcaatactg aagcaggatg aagtaagagg aatgccattc atttaaacat gctttgcttt 540
atgaattttg tctctttttt ggtctctttt tcttatattc aagttacaaa tgtacaagta 600
tccttactaa gagtgctcct tttgtatttt acatatatac agtatgaaaa tacattggaa 660
cactaggaaa gtttttaaat aacagttcta atttatcaga aaattgtgtt ttgggattga 720
gttctttgtc tcagcccaga atcccaggtc ctgggcctgg ttttctaatg ctgtcatctc 780
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aaggcaaaag aggaatcaag aataaataaa acaaacttaa tcttcatctt taaaaaaaaa 900
aaaaaaaa 908

<210> 53
<211> 1255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1236)..(1237)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1255)..(1255)
<223> n equals a,t,g, or c

<400> 53
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agtacaagtt tctcccctgt tgctgcttca gtggctttca ccctgcccaa tacatattta 180
atatgacacc atgtgtctct ttgtcagtct cctcatattg agcctaggaa ttggcaaaca 240
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agtcctcttt ggagatttcc agtgtctcat catcaagcaa tatgtccttt cagctaataa 360
gatctttatg tttcataatc attgcttaat atccaaagat taaatttaga ccatggaaag 420
gaaaaaagat ctcaaagcaa ctcatgtccc taaaaggaaa tcacactcat caaacaaata 480
cgctgtgttc acacaaagat attactattt tctaccttca gtactggcag actttaagtg 540
ggatatgaaa agcctcagct gcttttgaat gtgggtactt taccctggta aacatagatt 600
ccactcttca gcttggccaa tgtttataat actcagccct gcagaaaagc gtcctacttg 660
gctctcttat cctccattgg cttagacagg aattggggaa atacgcatgt cagtattagc 720
aaaatcagca gcaaagggac agargcatat gaaagtcacc tcmcaaaggc aatgcatatt 780
aaccctatcc ttggaraaat atgtgcttcc ytccagaaga aggaatattc actccagtgt 840
aaamccactt aaattatctt ttccattatc ttgtttaata atcaaaattc ttagaggctg 900
atagggttac acccatttat aggcaaagaa atggaaaccc agagagataa aatgactttc 960
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atgcttattg ttttctttgt ttaatatgta ttcattgtag agatttgggg aaaataaaat 1200
gaccaaaaat cttaaaaaaa aaaaaaaaaa actcgnnggg gggcccgtac ccaan 1255

<210> 54
<211> 1142
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (92)..(92)
<223> n equals a,t,g, or c

<400> 54
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gttagggacc cgctccagag ccccctctgg tncaccctgg gttcctccag ccccaccgag 120
tcactcactg tgggaccctg cctctgaata atcaggaacg gtggcttcag agacgtctct 180
tgggccttcc ctctggccac gtctgcaccc acccctsctg ggcaccctcc tagcctgcca 240
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ctccacaccg cctctgcctg cccctgtgga ctgatgctat cgcgcaccgt cccacgaccc 420
caccccgagc tcctgaagcc ggggtctgag cctgcatcac ctctggcctc tcatccccca 480
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ctcaggcctc agcgtggaca gcagggataa ggggcacgaa ggacggggac tcggcccctt 600
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaac 1140
tc 1142

<210> 55
<211> 1923
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (144)..(144)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1910)..(1910)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1912)..(1912)
<223> n equals a,t,g, or c

<400> 55
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gttggtgacc ttgtcattcc gtacaatgag aagccagaga aaccagccaa gacccagaaa 420
acctcgctgg acgaggccct gcagtggcgt gattccctgg acaaactcct gcagaacaac 480
tatggacttg ccagtttcaa aagtttcctg aagtctgaat tcagtgagga aaaccttgag 540
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gcaaagcaaa tttatgaaga attcattcaa acggaggctc ctaaagaggt gaatattgac 660
cacttcacta aggacatcac aatgaagaac ctggtggaac cttccctgag cagctttgac 720
atggcccaga aaagaatcca tgccctgatg gaaaaggatt ctctgcctcg ctttgtgcgc 780
tctgagtttt atcaggagtt aatcaagtag taatttagcc aggctatgaa atcatcctgt 840
gagttatttc ctccataata accctgcatt tcccattaat ctacatatct tcccacagca 900
gctttgctca gtgataccca catgggaaaa atcccagggg atgttgctta ctctttttgc 960
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tgccctgtta ttaattaaga tatcttcagc ttgtagtcag acacaatcag aatcacagaa 1080
aaatcctgcc taaggcaaag aaatataaga caagactatg atatcaatga atgtgggtta 1140
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ggtcaagtct aaaatggcta attgtcctat gatgctatta tcatagacta atgacattta 1800
tcttcaaaac accaaattgt ctttagaaaa attaatgtga ttacaggtag aggccttcta 1860
ggtgagacac ttttaaggta cactgcattt tgcaaaaaaa aaaaaaaaan gnaaattttt 1920
tgg 1923

<210> 56
<211> 1228
<212> DNA
<213> Homo sapiens

<400> 56
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aattaatata attttgtctt tagtaaaaac aggccctgga cagcacttaa accacagtga 120
attggcaatt ctactaaacc tactacaatc taaaacaagt gttaatatgg ctgattttgt 180
ccaagtgttg aacattaagg taaactctga gactcaacag cagctaaata aaataaacct 240
tcctgctgga attttggcaa caggtgaaaa acagacagat ccatcaacac cacaacagga 300

gtcttcgaaa ccgttgggag gaattcagcc ttcttctcag accatccagc ctaaagtgga 360
gactgatgct gcccaggcgg ctgtgcagag tgcatttgca gttctgttga ctcagttaat 420
aaaggctcag cagtcaaagc agaaagatgt gctactagaa gagagggaaa atggatcggg 480
acatgaagcg tcattacaac tcaggccact ccagaaccta gcactccggt gtcgggtaag 540
tgtgcagata ccagaccact aacacagctg cattacatkg tctactcagt gttgctgact 600
atatataatg tgtatagttc agtgacattg ccaaaagatg tcctgaagaa tctcaggtaa 660
ctggcaatag gttggttttt cagtctgttt acttccagga atggattctt taacaaatta 720
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aagaaataat atttaactcc aaatacgaaa ggatgcttga ctaaggcata atttatgtac 840
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gtgattccag ctacttggaa ggctgaggtg ggtggatcac ttgagcccag gaggtcaagg 1140
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caccaaaaaa aaaaaaaaaa aactcgta 1228

<210> 57
<211> 1038
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)..(2)
<223> n equals a,t,g, or c

<400> 57
gnaattcggc acgagttaat gtataaaata tttctataat gaattttaat gggaattaga 60
gcatcataga aaaaatgctc ttactgttga aaacattatt tgttacattt tggtcaacta 120
atctttcaat aacttttagt aactataatg ttaagttgta ccagtggcag tcttatatag 180
taaatggcag ctgacagcat gaaaataaca tatctaatat tttgtgacta tcttattagg 240
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gcggtatatt tatacatgat ttgacgtttg tgwaaatatt ttccctggac ttttatttta 360
gatgagatct acagtgtagg caaacttata taatctgtca actccattag tgtcatagtc 420
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aggtcattat caccaagtct tcaaggkatt acattataaa aaccttggkt tttattcttg 540
tgaatamccg ttttttccat gcaaagttaa aattcttcag cctttaattt ttttattaat 600
atataaggat gtgatgagta tgactacaaa acaggaaaaa ataaacagat ttcgtttgtg 660
gcttttgcta aattgttacc tgacaaaatc ttagccagtt cttcattttc gttttgagat 720
gaagatactt agttttagtc caggggctgg gcgcgatagc tgatgcctgt ggtcccagtg 780
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aaaaaaaaaa aaactcga 1038

<210> 58
<211> 990
<212> DNA
<213> Homo sapiens

<400> 58
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tgttgtctta ttttcagaaa ttgccgcagc taccccagcc ttcagcagcc accaccctga 180
tccgtcagca gccagcaaca taaaagcaag gttctctacc agccaaaaga agaaaactct 240
ctgaaggctc aggtgtttta taaaattttt ttagcaataa aatatttttt aaagtatgta 300
tatttttag atgtaatgct actgcatagt taatcagcya tattatagtg aaaatagaac 360
ttttgtatgt actgggagac caaaacattc atgtgaataa ctttttgca attttaact 420
tatttcagtg atctgggccc aaacctgaaa tatccgagcg gtatatttct ctctggcccc 480

aagttttgtg atattgttgt cctacatttt awttgtacat atgktataaa ctccacactg 540
tacttcygtk atttcattta agctgtcagt tatcttttta gagatttaga taaacagaga 600
catgttttta ttctttccat tgctgcttat tcctctgcgt aggttcatat ttcagkcctt 660
ttacttcaag agctctaaaa aaaatgtctt atagtgcagc tctattggta atcgattcct 720
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ttgctgagta atattctgag ttggtgattt tctctgacac tgctttttt ttttttttt 840
ttttttttg tcatttgaca cagaatcttr cagtgagttg agatcgtgcc actgaactcc 900
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<210> 59
<211> 1767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (26)..(26)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (68)..(68)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (80)..(80)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (107)..(107)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1762)..(1762)
<223> n equals a,t,g, or c

<400> 59
aagaaaaaaa taggcctggt tgccanatta aggtcccctg ggctatttta aaccggattt 60
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agatttccaa aatgccgttt tcagaacctg ggttttaata gcagtattga atttgtaagc 180
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gatacaattg ttgacttttc ttttactatg tgtaagaaat accccaaaca tgaaaagatt 300
gttttgatca tatgcatgta tgtagaatat ttttgcagag cagaaagatt atgttagaag 360
tgtgattttt attttcagaa gtcatataca tgtaagctac aattttgagt gctttataaa 420
cacttaagat atatatataa attttaattt catagcaact tgtaaaaaat aaaatacttg 480
ttgaaaagcc tttttcaaca tatccctaag ctaagggaag aggaaggaat aacaactcag 540
tgaaaagatg gtctccagtt tctgaatgaa aaagctacag ctgagaaata aaataaaatg 600
tcatgctgca gaatatgtta tacccttatt ttgtgttaag gatatatttt attatgtgaa 660
tggttttgtt tttgtttttt gtttttgttt tttgcttgta ttgggaatta gctttactgg 720
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tagcttgtga cacttttatt ttattagtca ccggggaact tttcagtgat gaaaatacac 900
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aacattaagt tgaagaatgg aaattaagag tacgtattca tggtttatat ttcttattct 1080
atggagttcg tgaacacatc taggtggaat gcatctgaga ctaagggctg gtttttaatc 1140
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aagatattta ggcttctgta cataaaagtg tttttgctaa atttacagta tatatagatc 1260
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gaatagcaca gctcaaacat tagtttttct acttacctcc tctaacacgt ggtttgtctg 1380
gagagtttct aaaaattcag ctataacccc agttcatgta tttactggtg attgttcttg 1440
ctgaggtagt aacagcccaa tcttgggctg ttaaatccta ggaaatctcg aatcatagtg 1500
attaaaatag ttggggtaaa gttgtagctt atatgcaata ctacttggag gaattcttct 1560
actaatttgt atttaatgtg gaaattgtat agtttcattg atttaatcat aaataatgga 1620
aatggtctcc aagaagtttt atttttcatt tttttgctta tacactctga ttcctataat 1680
acagtgctat aagctatgca cagaaaataa aatgtttgaa atccaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaaaaa angggggg 1767

<210> 60
<211> 1625
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1336)..(1336)
<223> n equals a,t,g, or c

<400> 60
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gggagaacca gtcctccaag ggagagtttt gtcagccagc tgaattgctg cttcagtgac 180
aaaatggaat tcactcaaat tgttctgagc tttaggacaa aagaaatgcc tgtcatcttc 240
ctgatagtga acttagcaaa gcaccgttta aaagaatggc tctcatcact cccgagtacc 300
ttgtcattac tgctcatctg tgctaagtgc cactgtctac ttctgatccc caaaacagtg 360
gsctctagcc tttgccttct gcctaactcc aagtagagtg ttctttttat aatccttcat 420
gttcatataa cactttagca tttacagagt gttttcacat gcttatttgt gaggtattat 480
cacagtgcta raaataagga aaggctgaga cctaccaaaa tgacagtgtt gtacgtgagc 540
aggctgagcc ttgaaagcag gacctctgtc tcccacatta gcgcttcatt ccatcacacc 600
tctgcaagga caggtagcct gctggggggc catggtggca ctggggtata aaatctctaa 660
actgctaata tcctcttttc cttctaggct gagaacatct ctaaggamct ctacatagaa 720
rtatatccag ggamctattc tgtcactgtg ggctcaaatg acttaaccaa gaaamtcatg 780
tggtagcagt tgattctgga caaagcgtgg amctggtcyt ccctgtgtga tgttgaccat 840
cactgccatc acatcacctt tttttaagta gtaagaataa agccactgta tgattctctt 900
aatagctata cattaatcct gtttttagtg ctgactgggt cagccttccg ggaactggag 960
tctgtctctt tcagtgcttt tttgtttgtt tggttggttg ttttttgaga cagcctgggc 1020
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gagagaattt tattaaatgt gacgaactgc ccccccccccc cccccagcag gagagcagca 1140
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ggaacttcat ttcccaaagg cagcgccagt ggctcctgag caatgagaat gtcctgtcct 1560
gtccaccata ttcaaggcca gcagaagagc ccgattaaac cctcgcagca cctggcctcg 1620
tgccc 1625

<210> 61
<211> 1588
<212> DNA
<213> Homo sapiens

<400> 61
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cccatggcat ctctcgcctc cctcgctcgt ctcagcccag ccctggaaga ctgagaatgt 120
tcccccaaat ctcctctgcc aaccagagct ctgggcacag attctggtgg ctccctgctg 180
gccctcttgg gcytctgctc acacctggga aggggctctc taaatcccgg ccagaaactc 240

tgacttgtgc caacaatagg atgacccaag ggagaggaaa cctatcctcc tcaccagaag 300
agcctgtgtt tttctgctga acacccactg ttcctgagga ctcctgctgg gaagtcccaa 360
gggatagttc tagcccttct gcctgtgtag acagaagcta aaccaccagt ctctctcgga 420
ggaagctgag acaacatact ctgtccatac ataagcaggc agggagggcc atgccaccta 480
cccttggcta aacagggaca gtgaacacat tttggttcct atcccagtgg gtaagaggca 540
cttatctctg ggaaatttgc ctctcttggg actctccccc tcccaggcat tttccattcc 600
tggaaaggct cctttggggt tcagaatcca gagaccaaac cctgacccac ctccttcctt 660
tcctccagcc cacgctggtc tgtccccatg ccttcccagg gcttcttcat gtcagatgca 720
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acagagcggt gatcaaagcc gagtacttac aactctggta agcctagctt ctccgcctca 960
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tatttcttta gtttaattaa ccttttggtt gtttgtgcaa tattatatat tttaaattat 1380
aatgcatctc cccagagtat tttgtagctg ggaaaagaaa aaaggaaaaa aagaaaaaaa 1440
gattctaaca gctgttagtt ttataattaa aaaagaaaga aaaaagaact ttgtcctgaa 1500
ccttttacag acttgccgtt aacagcatta aagtgattca cccgaagctg aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaactcga 1588

<210> 62
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (508)..(508)
<223> n equals a,t,g, or c

<400> 62
ggtcgaccca cgcgtccgcc cacgcgtccg gcttccttaa tgtaatttaa accctggcaa 60
acattcttta gaaaccaaga ggaaagaaag aacaaatatc aaaaaagaca tagaatttaa 120
tattgataca atttcacctc taaaatggat ttgaagaaat gcaactttat atcaaaaaat 180
gtcatctgat ttccttttgtt tctttttttaa attatgtaat cagatgattt tatgtttttt 240
tttcagggga gcggaatatt ggtttctttt acttgttgtt ttcagttttc tctgccattc 300
atgtttcttt tttgtgttca gtgtttcaaa tacaatttgt atttaaggat tttaaaatac 360
caaactgtaa ctgagtacag tggatcgttt tctgttagga tgttaatatt atacaatgaa 420
atctataaag tgttgtcaat ttgattattg acacatataa catgtttaca aataaactgt 480
ggtattgatc aaaaaaaaaa aaaaaaancc cgggggggggc cccggaaccc aatccc 536

<210> 63
<211> 660
<212> DNA
<213> Homo sapiens

<400> 63
gcacgagacc aagcaaagcc tacttagttt agatctccag aaattggctg gtggaaaaaa 60
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ctttggaaaa aatgaagaaa ttcctaggaa gcaaaggagg aagatctacc acagaaggtt 180
gaggaaaagt tcaacctcac acaagcacag atcaaacaga cagcttggaa ttccgcaaac 240
aacagttttt acaccagtag caagacttcc tattgttaac tttgattata gcatggagga 300
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aagaagggac actgtttggt aaagggcata accatgtaca acaaagctgt gtggtcgcct 420
gagccctgca ctacctgcct ctgctcagat ggaagagttc tttgtgatga aaccatgtgc 480
catccccaga ggtgccccca aacagttata cctgaagggg aatgctgccc ggtctgtccg 540
ctactggtac agagctttag ctaagcaaaa tatcagtgtg tgattaatct ttaacttcca 600

tttgtttttg ttactaattt tagattaaaa ttatgataca ttaaaaaaaa aaaaaaaaaa 660

<210> 64
<211> 1038
<212> DNA
<213> Homo sapiens

<400> 64
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gcgcgggacc aacgtcaccg ctgccgtcca ggatgccggc ctggcccacg aaggcgaggg 180
cgaggaggag accgaaaaca acgacagcga gaccgcggag aactacgctc cgtctgaaac 240
cgaggatgtt tcaaatagga atstcgtcaa agaagtagaa ttcggaatgt gcaccgttac 300
atgtggtatt ggtgttagag aagttatatt aacaaatgga tgccctggtg gtgaatccaa 360
gtgtgttgta cgggtagaag aatgcccgtg gaccaacaga ttgtggctgg ggtaaaccaa 420
tttcagaaag tcttgaaagt gttagattgg catgtattca cacatctccc ttaaatcgtt 480
tcaaatatat gtggaacttc taagacaaga ccacaatcca ttatacttgt aaatgattca 540
gcaatcctag aagtacgcaa ggaaagtcac cccttggctt tcgagtgtga cacactggat 600
aataatgaaa tartagcaac tattaaattc acagtctata cgagcagtga attgcagatg 660
agaagatcaa gcctaccagc cactgatgcc agccctaatt tttgtgctga ccataggagt 720
cattatctgt gtatttataa ttttcttatt gatcttcata atcataaatt gggcagcagt 780
caaggctttc tgggggggcaa aagcctctac acctgaggta caatccgagc agagttctgt 840
gagatacaaa gattcaactt ctcttgacca attaccaaca gaaatgcctg gtgaagatga 900
tgctttaagt gaatggaatg aatgatgttt gaatgatata taacaaacca aaggatatta 960
cagaatatta gattcattat tacaaaaata aaatacacat tgaaatactt taaaaaaaaa 1020
aaaaaaaaaa aaactcga 1038

<210> 65
<211> 1009
<212> DNA
<213> Homo sapiens

<400> 65
aggttgcagt gaagctggag atggcgctac tgcagtccag cctgggcgac agggcaagac 60
tccacctcaa aaaaatatat aaaataaagt gggattcatc caagagcttg ggacatgatt 120
aactaktgtc aaggagatat gtymtgccat tattatcctc cttacttggt agggtacaac 180
agaaacagaa caacaaggtg acagcctttt gctcaagtca aaaagaaaat aagtccctca 240
tcttagttta aagttgttca ttcagtagta cagacttgca tttgaagact tattcttgat 300
cttctgtagc tttgacagca aggacatcac tacaatgggt acagaaataa cacattctga 360
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atcttccttt caatcttgac tatagtttaa agagaatacc atgatctttc tgttctattc 540
ttggcttact tgaatattta gccaggtctc tgcatcttat tcagtcagaa aacagacaca 600
gattcagata actcaaagga tgttacttgc ttgagtaatc cttgggcctc gctttaactt 660
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gtggtggtgc agatcagtag tcctagctat tcaggaggct gaggcgggtg gattggttga 900
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agaacaagac cctgtctcaa attaaaaaaa aaaaaaaaaa aaaactcga 1009

<210> 66
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any amino acid

<400> 66
Met Ser Val Phe Leu Leu Ile Thr Leu Ala Leu Ala Ile Leu Tyr Ile
1 5 10 15

Ile Arg Ser Ile Val Phe Ser Leu Ala Leu Xaa Gln Asn Gly Ser Leu
20 25 30

Gln Gly

<210> 67
<211> 32
<212> PRT
<213> Homo sapiens

<400> 67
Met Arg Asn Lys Glu Ser Leu Cys Lys Val Val Leu Lys Ala Leu Tyr
1 5 10 15

Ala Asn Leu Leu Ile Cys Val Ser Ala Ser Ala Ile Leu Val Gln Cys
20 25 30

<210> 68
<211> 206
<212> PRT
<213> Homo sapiens

<400> 68
Met Gly Ala Glu Trp Glu Leu Gly Ala Glu Ala Gly Gly Ser Leu Leu
1 5 10 15

Leu Cys Ala Ala Leu Leu Ala Ala Gly Cys Ala Leu Gly Leu Arg Leu
20 25 30

Gly Arg Gly Gln Gly Ala Ala Asp Arg Gly Ala Leu Ile Trp Leu Cys
35 40 45

Tyr Asp Ala Leu Val His Phe Ala Leu Glu Gly Pro Phe Val Tyr Leu
50 55 60

Ser Leu Val Gly Asn Val Ala Asn Ser Asp Gly Leu Ile Ala Ser Leu
65 70 75 80

Trp Lys Glu Tyr Gly Lys Ala Asp Ala Arg Trp Val Tyr Phe Asp Pro
85 90 95

Thr Ile Val Ser Val Glu Ile Leu Thr Val Ala Leu Asp Gly Ser Leu
100 105 110

Ala Leu Phe Leu Ile Tyr Ala Ile Val Lys Glu Lys Tyr Tyr Arg His
115 120 125

Phe Leu Gln Ile Thr Leu Cys Val Cys Glu Leu Tyr Gly Cys Trp Met
130 135 140

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Thr Phe Leu Pro Glu Trp Leu Thr Arg Ser Pro Asn Leu Asn Thr Ser
145                 150                 155                 160

Asn Trp Leu Tyr Cys Trp Leu Tyr Leu Phe Phe Phe Asn Gly Val Trp
                165                 170                 175

Val Leu Ile Pro Gly Leu Leu Leu Trp Gln Ser Trp Leu Glu Leu Lys
            180                 185                 190

Lys Met His Gln Lys Glu Thr Ser Ser Val Lys Lys Phe Gln
        195                 200                 205
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<210> 69
<211> 215
<212> PRT
<213> Homo sapiens

<400> 69

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Met Val Ala Asp Trp Leu Gln Gln Ser Tyr Gln Ala Val Lys Glu Lys
  1               5                  10                  15

Ser Ser Glu Ala Leu Glu Phe Met Lys Arg Asp Leu Thr Glu Phe Thr
            20                  25                  30

Gln Val Val Gln His Asp Thr Ala Cys Thr Ile Ala Ala Thr Ala Ser
        35                  40                  45

Val Val Lys Glu Lys Leu Ala Ile Ala Ala Cys Ser Arg Gly Ala Cys
    50                  55                  60

Phe Leu Cys Pro Phe Ser Ile Gln Thr Glu Gly Ser Ser Gly Ala Thr
65                  70                  75                  80

Glu Lys Met Lys Lys Gly Leu Ser Asp Phe Leu Gly Val Ile Ser Asp
                85                  90                  95

Thr Phe Ala Pro Ser Pro Asp Lys Thr Ile Asp Cys Asp Val Ile Thr
            100                 105                 110

Leu Met Gly Thr Pro Ser Gly Thr Ala Glu Pro Tyr Asp Gly Thr Lys
        115                 120                 125

Ala Arg Leu Tyr Ser Leu Gln Ser Asp Pro Ala Thr Tyr Cys Asn Glu
    130                 135                 140

Pro Asp Gly Pro Pro Glu Leu Phe Asp Ala Trp Leu Ser Gln Phe Cys
145                 150                 155                 160

Leu Glu Glu Lys Lys Gly Glu Ile Ser Glu Leu Leu Val Gly Ser Pro
                165                 170                 175

Ser Ile Arg Ala Leu Tyr Thr Lys Met Val Pro Ala Ala Val Ser His
            180                 185                 190

Ser Glu Phe Trp His Arg Tyr Phe Tyr Lys Val His Gln Leu Glu Gln
        195                 200                 205

Glu Gln Ala Arg Arg Thr Pro
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210 215

<210> 70
<211> 33
<212> PRT
<213> Homo sapiens

<400> 70
Met Arg Leu Leu Leu Pro Ser Leu Leu Gly Gly Leu Ser Val Leu Thr
1 5 10 15

Thr Ser Leu Gly Ser Val Ala Gly Leu Arg Asn Ser Arg Ala Ala Trp
20 25 30

Trp

<210> 71
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (92)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (94)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (126)
<223> Xaa equals any amino acid

<400> 71
Met Gly Thr Ala Ser Thr Gly Pro Trp Ala Ile Pro Thr Trp Ser Pro
1 5 10 15

Cys Trp Gly Arg Ala Gly Arg Ser Ser Ser Ser Lys Asn Ala Tyr Cys
20 25 30

Arg Pro Gln Met Thr Phe Trp Leu Leu Ala Leu Arg Ser Thr Ser Ser
35 40 45

Glu Thr Ser Ser Met Leu Leu Gln Cys Gly Gly Thr Gly Arg Glu Gly
50 55 60

Trp Leu Ser Val Gln Pro Ala Glu Xaa Val Ser Thr Thr Arg Val Pro
65 70 75 80

Arg Asp His Ile Val Gln Phe Leu Arg Leu Leu Xaa Ser Xaa Phe Ile
85 90 95

Arg Asn Arg Ala Asp Phe Phe Arg His Phe Ile Asp Glu Glu Met Asp
100 105 110

Ile Lys Asp Phe Cys Thr His Glu Val Glu Pro Met Ala Xaa Glu Cys
115 120 125

Asp His Ile Gln Ile Thr Ala Leu Ser Gln Ala Leu Ser Ile Ala Leu
130 135 140

Gln Val Glu Tyr Val Asp Glu Met Asp Thr Ala Leu Asn His His Val
145 150 155 160

Phe Pro Glu Ala Ala Thr Pro Ser Val Tyr Leu Leu Tyr Lys Thr Ser
165 170 175

His Tyr Asn Ile Leu Tyr Ala Ala Asp Lys His
180 185

<210> 72
<211> 48
<212> PRT
<213> Homo sapiens

<400> 72
Met Phe Ala Pro Cys Phe Val Asn Leu Ala Leu Phe Tyr Leu Tyr Ile
1 5 10 15

Asn Ser Cys Asn Leu Leu Asn Leu Thr Ser Ile Asp Pro Phe Gln Gln
20 25 30

Lys Gly Lys Phe Lys Met Gln Thr Leu Leu Phe Ala Lys Glu Asp Ser
35 40 45

<210> 73
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (79)
<223> Xaa equals any amino acid

<400> 73
Met Gln Cys Ile Arg Trp Thr Val Leu Phe Leu Phe Ile Leu Trp Val
1 5 10 15

Leu Val Phe Val Phe Phe Phe Ala Phe Thr Val Arg Leu Gln Met Ile
20 25 30

Val Leu Ile Thr Tyr Ile Ile Asn Lys Cys Gly Pro Ile Ile Tyr Thr
35 40 45

Glu Ile Thr Leu Gly Tyr Phe Cys Ile Ile Leu Ser Tyr Cys Leu His
50 55 60

Ser Ile Asn Phe Ser Arg Asp Asn Cys Leu Cys Val Thr Gly Xaa Lys
65 70 75 80

Cys Arg Ile Thr Ser Phe Ile Ile Trp Lys Asn
85 90

<210> 74
<211> 28
<212> PRT
<213> Homo sapiens

<400> 74
Met Val Phe Leu Asn Phe Leu Ile Tyr Leu Leu Leu Val Phe Phe Tyr
1 5 10 15

Ile Ser Leu Phe His Ser Arg Asp Asn Phe Ile Leu
20 25

<210> 75
<211> 86
<212> PRT
<213> Homo sapiens

<400> 75
Met Ala Arg His Val Pro Leu Tyr Arg Ala Leu Leu Glu Leu Leu Arg
1 5 10 15

Ala Ile Ala Ser Cys Ala Ala Met Val Pro Leu Leu Leu Pro Leu Ser
20 25 30

Thr Glu Asn Gly Glu Glu Glu Glu Glu Gln Ser Glu Cys Gln Thr Ser
35 40 45

Val Gly Thr Leu Leu Ala Lys Met Lys Thr Cys Val Asp Thr Tyr Thr
50 55 60

Asn Arg Leu Arg Tyr Tyr Ile Gln Cys Ser Phe Leu Leu Ser Leu Pro
65 70 75 80

Leu Thr Met Phe Leu Lys
85

<210> 76
<211> 124
<212> PRT
<213> Homo sapiens

<400> 76
Met Leu Leu Ile Leu Val Thr Pro Val Pro Thr Arg Leu Arg Ala Arg

```
  1               5                  10                  15

Pro Arg Leu Asp Leu Leu Val Leu Thr Pro Arg Ala Cys Pro Ala Ser
             20                  25                  30

Arg Val Arg Gly Arg Leu Ser Cys Arg Arg Thr Leu Pro Arg Met Gly
         35                  40                  45

Pro Ala Ser Cys Ser Ala Leu Ala Thr Asn Ala Ala Pro Gly Pro Pro
     50                  55                  60

His Pro Ala Gly Pro Ala Phe Ser Ser Ile Ser His Met Ala Thr Thr
 65                  70                  75                  80

Pro Gln Ser Leu Glu Pro Pro Ala Gly Asn Ser Val Pro Gln Ser Leu
                 85                  90                  95

Met Ser Ile Leu Asp Pro Ala Ser Ser Trp Val Pro Lys Ser Ala Ser
            100                 105                 110

Pro Pro Arg Val Ala Cys Pro Cys Pro Pro Ala Leu
        115                 120
```

<210> 77
<211> 38
<212> PRT
<213> Homo sapiens

<400> 77

```
Met His Leu Phe Leu Phe Ile Trp Ala Phe Gly Leu Pro Leu His Ile
  1               5                  10                  15

Ser Arg Asp Leu Ala Phe Phe Phe Leu Leu Tyr Phe Leu Phe Phe Tyr
             20                  25                  30

Leu Leu Cys Val Leu Leu
         35
```

<210> 78
<211> 64
<212> PRT
<213> Homo sapiens

<400> 78

```
Met Asn Ala Ser Cys Ser Leu Ala His Phe Glu His Ser Gly Met Ser
  1               5                  10                  15

Val Leu Leu Val His Leu Phe Ile Ile Val Ser Thr Val Pro Ser Cys
             20                  25                  30

Phe Lys Lys Tyr Met Ala Phe Ile Ile Tyr Pro Ala Phe Ser Cys His
         35                  40                  45

Phe Asn Lys Ser Met Cys Leu Ile Gln Leu Leu His Ser Ser Gln Lys
     50                  55                  60
```

<210> 79
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (63)
<223> Xaa equals any amino acid

<400> 79
Met Gly Ala Ala Lys Val Trp Gly Glu Val Gly Arg Trp Leu Val Ile
1 5 10 15

Ala Leu Ile Gln Leu Ala Lys Ala Val Leu Arg Met Leu Leu Leu Leu
20 25 30

Trp Phe Lys Ala Gly Leu Gln Thr Ser Pro Pro Ile Val Pro Leu Asp
35 40 45

Arg Glu Thr Arg His Ser Pro Arg Met Val Thr Thr Ala Xaa Xaa Thr
50 55 60

Met Ser Ser Pro Thr Trp Gly Ser Gly Gln Thr Gly Trp Cys Glu Pro
65 70 75 80

Ser Arg Thr Arg Arg Pro Cys Thr Pro Gly Thr Gly Glu Leu Pro Ser
85 90 95

Ser Gly Arg Asp Gly Ser Ser Ser Ile Thr Arg Ser
100 105

<210> 80
<211> 43
<212> PRT
<213> Homo sapiens

<400> 80
Met Asp Ile Ala Ala Pro Val Leu Phe Ala Leu Arg Leu Gln Phe Leu
1 5 10 15

Phe Ile Leu Leu Pro Met His Phe Glu Ile Ser Leu Leu Cys Lys Val
20 25 30

Ser Thr Glu Thr Ser Gly Arg Glu Asp Lys Met
35 40

<210> 81

<211> 49
<212> PRT
<213> Homo sapiens

<400> 81
Met Ala Thr Asp Glu Arg Val Leu Arg Lys Ala His Ser Thr Pro Ala
1 5 10 15

Leu Phe Gln Leu Val Leu Asn Leu Val Gln Cys Pro Ser Pro Ala Ser
20 25 30

Gly Val Lys Ser His Leu Leu Pro His Lys Glu Arg His Lys Ser Met
35 40 45

Glu

<210> 82
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (14)
<223> Xaa equals any amino acid

<400> 82
Met Gly Val Leu His Leu Leu Ala Xaa Phe Leu Leu Val Xaa Gly Arg
1 5 10 15

Val Pro Gly Leu Gly Gly Val Pro Gly Gly Gly Glu Gly
20 25

<210> 83
<211> 41
<212> PRT
<213> Homo sapiens

<400> 83
Met Ser Tyr Lys Trp Asn Ser Arg Val Cys Phe Leu Trp Ser Arg Thr
1 5 10 15

Phe His Leu Met Leu Leu Arg Leu Ile Cys Leu Val Ala Tyr Ile Ser
20 25 30

Thr Glu Val Ile Ser Phe Ile Ala Glu
35 40

<210> 84

<211> 89
<212> PRT
<213> Homo sapiens

<400> 84
Met Leu Leu Leu Val Tyr Phe Leu Leu Met Ser Val Ile Phe Gly Thr
1 5 10 15

Lys Phe Phe Pro Leu Ile Ile His Met Phe Asn Pro Cys Ile Leu Asn
20 25 30

Leu Ile Lys Leu Val Phe Ser Leu Met Pro Gly Ser His Gln Thr Pro
35 40 45

Asn Val Gln Ala Thr Arg Ala Ser Asp Asp Gly Ser Ala Leu Leu Gly
50 55 60

Thr Pro Ser Arg Pro Leu Gly Ser Ile Arg Gln Gln Phe Thr Pro Lys
65 70 75 80

Glu Cys Pro Leu Ser Ala Gly Ser Ser
85

<210> 85
<211> 108
<212> PRT
<213> Homo sapiens

<400> 85
Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
1 5 10 15

Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
20 25 30

Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
35 40 45

Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
50 55 60

Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
65 70 75 80

Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
85 90 95

Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
100 105

<210> 86
<211> 303
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (203)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (267)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (274)
<223> Xaa equals any amino acid

<400> 86

```
Met Gly Ser Gly Gly Asp Ser Leu Leu Gly Gly Arg Gly Ser Leu Pro
  1               5                  10                  15

Leu Leu Leu Leu Leu Ile Met Gly Gly Met Ala Gln Asp Ser Pro Pro
             20                  25                  30

Gln Ile Leu Val His Pro Gln Asp Gln Leu Phe Gln Gly Pro Gly Pro
         35                  40                  45

Ala Arg Met Ser Cys Arg Ala Ser Gly Gln Pro Pro Pro Thr Ile Arg
     50                  55                  60

Trp Leu Leu Asn Gly Gln Pro Leu Ser Met Val Pro Pro Asp Pro His
 65                  70                  75                  80

His Leu Leu Pro Asp Gly Thr Leu Leu Leu Leu Gln Pro Pro Ala Arg
                 85                  90                  95

Gly His Ala His Asp Gly Gln Ala Leu Ser Thr Asp Leu Gly Val Tyr
            100                 105                 110

Thr Cys Glu Ala Ser Asn Arg Leu Gly Thr Ala Val Ser Arg Gly Ala
        115                 120                 125

Arg Leu Ser Val Ala Val Leu Arg Glu Asp Phe Gln Ile Gln Pro Arg
    130                 135                 140

Asp Met Val Ala Val Val Gly Glu Gln Phe Thr Leu Glu Cys Gly Pro
145                 150                 155                 160

Pro Trp Gly His Pro Glu Pro Thr Val Ser Trp Trp Lys Asp Gly Lys
                165                 170                 175

Pro Leu Ala Leu Gln Pro Gly Arg His Thr Val Ser Gly Gly Ser Leu
            180                 185                 190

Leu Met Ala Arg Ala Glu Lys Ser Asp Glu Xaa Thr Tyr Met Cys Val
        195                 200                 205

Ala Thr Asn Ser Ala Gly His Arg Glu Ser Arg Ala Ala Arg Val Ser
    210                 215                 220

Ile Gln Glu Pro Gln Asp Tyr Thr Glu Pro Val Glu Leu Leu Ala Val
225                 230                 235                 240

Arg Ile Gln Leu Glu Asn Val Thr Leu Leu Asn Pro Asp Pro Ala Glu
                245                 250                 255
```

Gly Pro Lys Pro Arg Pro Ala Val Trp Leu Xaa Trp Lys Val Ser Gly
260 265 270

Pro Xaa Arg Leu Pro Asn Leu Thr Arg Pro Cys Ser Gly Pro Arg Leu
275 280 285

Pro Arg Glu Ala Arg Glu Leu Arg Gly Gln Arg Arg Asn Thr Gly
290 295 300

<210> 87
<211> 56
<212> PRT
<213> Homo sapiens

<400> 87
Met Leu Met Asn Pro Ile Arg Arg Arg Phe Gln Gln Val Pro His Pro
1 5 10 15

Pro Leu Leu Leu Leu Leu Leu Leu Leu Thr Ala Arg Thr Gly Gly Gly
20 25 30

Gln Gly Asp Thr Trp Ala Asp Pro Pro Ala Leu Pro Pro Pro His Pro
35 40 45

Ala Pro His Ile Ile Leu Gln Ser
50 55

<210> 88
<211> 30
<212> PRT
<213> Homo sapiens

<400> 88
Met Gln Ser Tyr Ser Leu Val Phe Leu Val Val Tyr Leu Ile Leu Pro
1 5 10 15

Tyr Ser Ser Phe Lys Glu Asn Ser Ile Phe Ile Thr Val Asn
20 25 30

<210> 89
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (62)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (64)
<223> Xaa equals any amino acid

<400> 89
Met Ala Leu Gly Ala Leu Ser Leu Asn Ala Ala Leu Ala Pro Trp Ala
1 5 10 15

Ser Ser Pro Gly Pro Asp Leu Pro Ile Leu Lys Glu Lys Gln Pro Leu
20 25 30

Ser Ser Tyr Pro Xaa Ser Gly Gly Ala Arg Phe Arg Leu Pro Thr Thr
35 40 45

Ser Leu Gly Thr Arg Glu Ser Ser Ser Phe Thr Thr Cys Xaa Val Xaa
50 55 60

Gly Ala Gly Leu
65

<210> 90
<211> 25
<212> PRT
<213> Homo sapiens

<400> 90
Met Ile Thr Ser His Leu Arg Glu Ala Lys Leu Lys Val His Leu Gln
1 5 10 15

Glu Glu Leu Trp Pro Asp Ile Ala Asn
20 25

<210> 91
<211> 212
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (180)
<223> Xaa equals any amino acid

<400> 91
Met Lys Val Phe Lys Phe Ile Gly Leu Met Ile Leu Leu Thr Ser Ala
1 5 10 15

Phe Ser Ala Gly Ser Gly Gln Ser Pro Met Thr Val Leu Cys Ser Ile
20 25 30

Asp Trp Phe Met Val Thr Val His Pro Phe Met Leu Asn Asn Asp Val
35 40 45

Cys Val His Phe His Glu Leu His Leu Gly Leu Gly Cys Pro Pro Asn
50 55 60

His Val Gln Pro His Ala Tyr Gln Phe Thr Tyr Arg Val Thr Glu Cys

```
 65                  70                  75                  80

Gly Ile Arg Ala Lys Ala Val Ser Gln Asp Met Val Ile Tyr Ser Thr
                 85                  90                  95

Glu Ile His Tyr Ser Ser Lys Gly Thr Pro Ser Lys Phe Val Ile Pro
            100                 105                 110

Val Ser Cys Ala Ala Pro Gln Lys Ser Pro Trp Leu Thr Lys Pro Cys
        115                 120                 125

Ser Met Arg Val Ala Ser Lys Ser Arg Ala Thr Ala Arg Arg Met Arg
    130                 135                 140

Asn Ala Thr Arg Cys Ser Ala Cys His Ser Pro Val Lys Gly Pro Thr
145                 150                 155                 160

Ala Ile Val His Leu Val Ser Ser Val Lys Lys Ser Ile Pro Arg Ser
                165                 170                 175

Leu Val Thr Xaa Ala Gly Ala Gln Glu Ala Gln Pro Leu Gln Pro Ser
            180                 185                 190

His Phe Leu Asp Ile Ser Glu Asp Trp Ser Leu His Thr Asp Asp Met
        195                 200                 205

Ile Gly Ser Met
    210
```

<210> 92
<211> 44
<212> PRT
<213> Homo sapiens

```
<400> 92
Met Asn Asn Ala Ala Lys Asn Ile Asn Val Gln Val Ser Val Trp Thr
  1               5                  10                  15

Tyr Ala Phe Ile Ser Leu Ile Phe Ile Leu Phe His Leu Gly Val Glu
             20                  25                  30

Leu Leu Gly Cys Met Val Val Leu Cys Leu Thr Val
         35                  40
```

<210> 93
<211> 40
<212> PRT
<213> Homo sapiens

```
<400> 93
Met Ser Ser Asn Thr Tyr Ile Val Leu Val Cys Gln Ala Leu Leu Ile
  1               5                  10                  15

Thr Ala Met Asn Arg Gly Pro Pro Asn Lys Cys Asn Arg Val Tyr Leu
             20                  25                  30

Phe Leu Asn Leu Cys His His Tyr
```

35 40

<210> 94
<211> 115
<212> PRT
<213> Homo sapiens

<400> 94
Met Gln Leu Ser Val Cys Val Ile Thr Thr Ser Leu Leu Phe Asn Ser
1 5 10 15

Ile Thr Leu Tyr Phe Ser Lys Met Pro Arg Ser Pro Gly Ser Tyr Ala
20 25 30

Asp Leu Gln Arg Phe Tyr Phe Leu Ala Leu Glu Ser Ala Glu Ile Arg
35 40 45

Arg His Arg Ala Gln Arg Ser Ser Leu Gly Thr Arg Ile Ala Phe Ala
50 55 60

Leu Ala Gly Tyr Val Tyr Thr Asp Glu Tyr Lys Met Phe Phe Ser Leu
65 70 75 80

Gly Phe Leu Leu Leu Phe Ser Pro Pro Ser His Leu Pro Phe Ser Pro
85 90 95

Thr Pro Pro Pro Lys Lys Ala Thr Ser Ser Phe Arg Gly Thr Ile Ile
100 105 110

Phe Phe Asn
115

<210> 95
<211> 83
<212> PRT
<213> Homo sapiens

<400> 95
Met Ser Phe Phe Gln Leu Leu Met Lys Arg Lys Glu Leu Ile Pro Leu
1 5 10 15

Val Val Phe Met Thr Val Ala Ala Gly Gly Ala Ser Ser Phe Ala Val
20 25 30

Tyr Ser Leu Trp Lys Thr Asp Val Ile Leu Asp Arg Lys Lys Asn Pro
35 40 45

Glu Pro Trp Glu Thr Val Asp Pro Thr Val Pro Gln Lys Leu Ile Thr
50 55 60

Ile Asn Gln Gln Trp Lys Pro Ile Glu Glu Leu Gln Asn Val Gln Arg
65 70 75 80

Val Thr Lys

<210> 96
<211> 49
<212> PRT
<213> Homo sapiens

<400> 96
Met Pro Ser Ser Glu Cys Arg Ser Ser Ala Leu Leu Leu Asn Val Ser
1 5 10 15

Leu Ala Glu Ser Glu Ala Gly Arg Arg Pro Gly Lys Pro Gly Trp Ala
20 25 30

Glu Glu Ala Thr Gly Gly Arg Arg Ala Ser Arg Lys Asp Gly Thr Gln
35 40 45

Gly

<210> 97
<211> 34
<212> PRT
<213> Homo sapiens

<400> 97
Met Ala His Arg Ser Trp Ile Leu Ser Ser Ser Leu Leu Pro Ile Pro
1 5 10 15

Ile Phe Phe Leu Leu Pro Pro Ser Ser Ala Ala Thr Leu Ala Thr Pro
20 25 30

Gly Ser

<210> 98
<211> 44
<212> PRT
<213> Homo sapiens

<400> 98
Met Leu Val Phe Leu Pro Phe Thr Val Leu Val Leu Ile Ser Tyr Ile
1 5 10 15

Phe Ser Ser His Ser Phe Asn Pro Leu Phe Thr Leu Cys Asp Phe Glu
20 25 30

Gln Val Leu Leu His Leu Lys Ile Phe Ser His Pro
35 40

<210> 99
<211> 42
<212> PRT
<213> Homo sapiens

<400> 99

```
Met Ala Leu Val Ile Ser Ala Pro Pro Pro Asn Ser Pro Cys Asn Cys
  1               5                  10                  15

Phe Phe Phe Ile Phe Leu Phe Ile Leu Pro Leu Ile Phe Pro Leu Phe
             20                  25                  30

Lys Gly Leu Phe Ala Thr Phe Val Phe Phe
         35                  40
```

<210> 100
<211> 44
<212> PRT
<213> Homo sapiens

<400> 100

```
Met Ala Ser Thr Leu Glu Thr Ile Arg Pro Leu Gly Phe Leu Leu Leu
  1               5                  10                  15

Tyr Cys Phe Ile Ser Leu Leu Tyr Leu Pro Val Leu Glu Thr Ser Phe
             20                  25                  30

Ser Phe Leu Leu Val Trp Arg Leu Glu Pro Ile Val
         35                  40
```

<210> 101
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any amino acid

<400> 101

```
Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln
  1               5                  10                  15

Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys
             20                  25                  30

Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg
         35                  40                  45

Ser Asn Arg Gln Leu Gly Ile Xaa Gln Thr Thr Val Phe Thr Pro Val
     50                  55                  60

Ala Arg Leu Pro Ile Val Asn Phe Asp Tyr Ser Met Glu Glu Lys Phe
 65                  70                  75                  80

Glu Ser Phe Ser Ser Phe Pro Gly Val Glu Ser Ser Tyr Asn Val Leu
                 85                  90                  95

Pro Gly Lys Lys Gly His Cys Leu Val Lys Gly Ile Thr Met Tyr Asn
            100                 105                 110

Lys Ala Val Trp Ser Pro Glu Pro Cys Thr Thr Cys Leu Cys Ser Asp
```

```
        115                 120                 125

Gly Arg Val Leu Cys Asp Glu Thr Met Cys His Pro Gln Arg Cys Pro
    130                 135                 140

Gln Thr Val Ile Pro Glu Gly Glu Cys Cys Pro Val Cys Pro Leu Leu
145                 150                 155                 160

Val Gln Ser Phe Ser
                165
```

<210> 102
<211> 62
<212> PRT
<213> Homo sapiens

<400> 102

```
Met Leu Gly Leu Gln Pro Gln Gly Leu Gly Trp Pro Ala Leu Leu Leu
  1               5                  10                  15

Leu Ile Leu Lys Thr Phe Lys Val Gly Gly Trp Gln Gly Met Cys Leu
             20                  25                  30

Ile Asn Gln Phe Gln Ala Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys
         35                  40                  45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
     50                  55                  60
```

<210> 103
<211> 74
<212> PRT
<213> Homo sapiens

<400> 103

```
Met Val Val Ile Thr Val Leu Leu Ser Val Ala His Val Pro Ala Gly
  1               5                  10                  15

Ala Gly Leu His His Cys Pro Gly Thr Gly Leu Pro Gln Val Arg Arg
             20                  25                  30

Ser Ala Arg Ser Ser Ser Phe Ser Arg Lys Pro Arg Ala Pro Ser Ser
         35                  40                  45

Ser Pro Ala His Leu Leu Pro Gly Pro Arg Pro Val Ala Pro Leu Val
     50                  55                  60

Pro Ser Leu Leu Leu Cys Pro Pro Leu Pro
 65                  70
```

<210> 104
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any amino acid

<400> 104
Met Leu Ser Val Gly Ile Ala Leu Ala Ala Leu Gly Ser Leu Leu Leu
1 5 10 15

Leu Gly Leu Leu Leu Tyr Gln Val Gly Val Ser Gly His Cys Pro Ser
20 25 30

Ile Cys Met Ala Thr Pro Ser Thr His Ser Gly His Gly Gly His Gly
35 40 45

Ser Ile Phe Ser Ile Ser Gly Gln Leu Ser Ala Gly Arg Arg His Glu
50 55 60

Thr Thr Ser Ser Ile Ala Xaa Leu Ile
65 70

<210> 105
<211> 163
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (106)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (113)
<223> Xaa equals any amino acid

<400> 105
Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
1 5 10 15

Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
20 25 30

Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
35 40 45

Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro
50 55 60

Pro Glu Thr Glu Asp Val Ser Asn Arg Asn Val Val Lys Glu Val Glu
65 70 75 80

Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
85 90 95

Leu Thr Asn Gly Cys Pro Gly Gly Glu Xaa Lys Cys Val Val Arg Val
100 105 110

Xaa Glu Cys Arg Gly Pro Thr Asp Cys Gly Trp Gly Lys Pro Ile Ser

115 120 125

Glu Ser Leu Glu Ser Val Arg Leu Ala Cys Ile His Thr Ser Pro Leu
130 135 140

Ile Val Ser Ile Tyr Val Glu Leu Leu Arg Gln Thr Thr Ile His Tyr
145 150 155 160

Thr Cys Lys

<210> 106
<211> 54
<212> PRT
<213> Homo sapiens

<400> 106
Met Phe Met Pro Leu Leu Ser Ser Leu Leu Gly Arg Val Gln Gln Lys
1 5 10 15

Gln Asn Asn Lys Val Thr Ala Phe Cys Ser Ser Gln Lys Glu Asn Lys
20 25 30

Ser Leu Ile Leu Gly Leu Lys Leu Phe Ile Gln Val Val Gln Thr Cys
35 40 45

Ile Trp Lys Thr Tyr Ser
50

<210> 107
<211> 25
<212> PRT
<213> Homo sapiens

<400> 107
Met Ser Lys Thr Phe Leu Ser Ala Phe Leu Phe Leu Thr Val Leu Ser
1 5 10 15

Leu Thr Val Leu Ser Ile Cys Ser Asn
20 25

<210> 108
<211> 27
<212> PRT
<213> Homo sapiens

<400> 108
Met Cys Leu Phe Val Ser Leu Leu Ile Leu Ser Leu Gly Ile Gly Lys
1 5 10 15

His Ser Met Asn Ile Tyr Thr Leu Thr Phe Phe
20 25

<210> 109
<211> 61
<212> PRT
<213> Homo sapiens

<400> 109
Met Gln Leu Arg Gly Leu Ser Leu Asn Pro Arg Leu Leu Leu Thr Leu
1 5 10 15

Gly Ser Phe Asn Gln Val Gly Gln Pro Leu Leu Gln Arg Gly Val Gly
20 25 30

Trp Leu Ser Ser Leu Ser His Ala Ala Cys Glu Asp Arg Gly Gly Gly
35 40 45

Val Gly Ser Gly Lys Ser Pro Glu Asn Arg Arg Gly Ile
50 55 60

<210> 110
<211> 50
<212> PRT
<213> Homo sapiens

<400> 110
Met Leu Leu Thr Leu Phe Ala His Thr Ala Leu Asp Thr Tyr Leu Leu
1 5 10 15

Ser Glu Ala Phe Phe Pro His Ser Ile Leu Pro Ala Leu Leu Leu Ile
20 25 30

Lys Ile Ser Ser Ala Cys Ser Gln Thr Gln Ser Glu Ser Gln Lys Asn
35 40 45

Pro Ala
50

<210> 111
<211> 170
<212> PRT
<213> Homo sapiens

<400> 111
Met Thr Val Leu Ile Asn Ile Ile Leu Ser Leu Val Lys Thr Gly Pro
1 5 10 15

Gly Gln His Leu Asn His Ser Glu Leu Ala Ile Leu Leu Asn Leu Leu
20 25 30

Gln Ser Lys Thr Ser Val Asn Met Ala Asp Phe Val Gln Val Leu Asn
35 40 45

Ile Lys Val Asn Ser Glu Thr Gln Gln Gln Leu Asn Lys Ile Asn Leu
50 55 60

Pro Ala Gly Ile Leu Ala Thr Gly Glu Lys Gln Thr Asp Pro Ser Thr
65 70 75 80

```
Pro Gln Gln Glu Ser Ser Lys Pro Leu Gly Gly Ile Gln Pro Ser Ser
                  85                  90                  95

Gln Thr Ile Gln Pro Lys Val Glu Thr Asp Ala Ala Gln Ala Ala Val
             100                 105                 110

Gln Ser Ala Phe Ala Val Leu Leu Thr Gln Leu Ile Lys Ala Gln Gln
         115                 120                 125

Ser Lys Gln Lys Asp Val Leu Leu Glu Glu Arg Glu Asn Gly Ser Gly
     130                 135                 140

His Glu Ala Ser Leu Gln Leu Arg Pro Leu Gln Asn Leu Ala Leu Arg
145                 150                 155                 160

Cys Arg Val Ser Val Gln Ile Pro Asp His
                 165                 170
```

<210> 112
<211> 39
<212> PRT
<213> Homo sapiens

<400> 112

```
Met Leu Leu Leu Leu Lys Thr Leu Phe Val Thr Phe Trp Ser Thr Asn
  1               5                  10                  15

Leu Ser Ile Thr Phe Ser Asn Tyr Asn Val Lys Leu Tyr Gln Trp Gln
             20                  25                  30

Ser Tyr Ile Val Asn Gly Ser
         35
```

<210> 113
<211> 64
<212> PRT
<213> Homo sapiens

<400> 113

```
Met Lys Gln His His Ile Leu Gln Arg Asn Leu Leu Gly Lys Glu Glu
  1               5                  10                  15

Pro Ile Asp Met Ala Asn Ile Ile Val Val Leu Phe Ser Glu Ile Ala
             20                  25                  30

Ala Ala Thr Pro Ala Phe Ser Ser His His Pro Asp Pro Ser Ala Ala
         35                  40                  45

Ser Asn Ile Lys Ala Arg Phe Ser Thr Ser Gln Lys Lys Lys Thr Leu
     50                  55                  60
```

<210> 114

<211> 27
<212> PRT
<213> Homo sapiens

<400> 114
Met Val Leu Phe Leu Phe Phe Val Phe Val Phe Cys Leu Tyr Trp Glu
1 5 10 15

Leu Ala Leu Leu Val Thr Ser Leu Phe Ser Phe
20 25

<210> 115
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any amino acid

<400> 115
Met Glu Phe Thr Gln Ile Val Leu Ser Phe Arg Thr Lys Glu Met Pro
1 5 10 15

Val Ile Phe Leu Ile Val Asn Leu Ala Lys His Arg Leu Lys Glu Trp
20 25 30

Leu Ser Ser Leu Pro Ser Thr Leu Ser Leu Leu Leu Ile Cys Ala Lys
35 40 45

Cys His Cys Leu Leu Leu Ile Pro Lys Thr Val Xaa Ser Ser Leu Cys
50 55 60

Leu Leu Pro Asn Ser Lys
65 70

<210> 116
<211> 21
<212> PRT
<213> Homo sapiens

<400> 116
Gly Ala Ala Gly Ile Ser Gly Glu Pro Gly Ala Ser Arg Cys Cys Ser
1 5 10 15

Gly Asp Ser Cys Thr
20

<210> 117
<211> 55
<212> PRT
<213> Homo sapiens

<400> 117

```
Met Ser Ser Asp Phe Leu Cys Phe Phe Phe Lys Leu Cys Asn Gln Met
  1               5                  10                  15

Ile Leu Cys Phe Phe Phe Arg Gly Ala Glu Tyr Trp Phe Leu Leu Leu
             20                  25                  30

Val Val Phe Ser Phe Leu Cys His Ser Cys Phe Phe Phe Val Phe Ser
         35                  40                  45

Val Ser Asn Thr Ile Cys Ile
     50                  55
```

<210> 118
<211> 88
<212> PRT
<213> Homo sapiens

<400> 118

```
Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln
  1               5                  10                  15

Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys
             20                  25                  30

Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg
         35                  40                  45

Ser Asn Arg Gln Leu Gly Ile Pro Gln Thr Thr Val Phe Thr Pro Val
     50                  55                  60

Ala Arg Leu Pro Ile Val Asn Phe Asp Tyr Ser Met Glu Glu Lys Phe
 65                  70                  75                  80

Glu Ser Phe Gln Val Phe Leu Glu
                 85
```

<210> 119
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (75)
<223> Xaa equals any amino acid

<400> 119

```
Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
  1               5                  10                  15

Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
             20                  25                  30

Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
         35                  40                  45

Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro
```

```
     50                  55                  60

Ser Glu Thr Glu Asp Val Ser Asn Arg Asn Xaa Val Lys Glu Val Glu
 65                  70                  75                  80

Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
                 85                  90                  95

Leu Thr Asn Gly Cys Pro Gly Gly Glu Ser Lys Cys Val Val Arg Val
            100                 105                 110

Glu Glu Cys Pro Trp Thr Asn Arg Leu Trp Leu Gly
        115                 120
```

<210> 120
<211> 34
<212> PRT
<213> Homo sapiens

<400> 120

```
Pro Leu Leu Ser Ser Leu Leu Gly Arg Val Gln Gln Lys Gln Asn Asn
  1               5                  10                  15

Lys Val Thr Ala Phe Cys Ser Ser Gln Lys Glu Asn Lys Ser Leu Ile
            20                  25                  30

Leu Val
```

<210> 121
<211> 19
<212> PRT
<213> Homo sapiens

<400> 121

```
Gly Thr Pro Gly Val Ser Thr His Ile Trp Gly Lys Pro Asp Pro Gln
  1               5                  10                  15

Val Thr Asp
```

<210> 122
<211> 206
<212> PRT
<213> Homo sapiens

<400> 122

```
Met Gly Ala Glu Trp Glu Leu Gly Ala Glu Ala Gly Gly Ser Leu Leu
  1               5                  10                  15

Leu Cys Ala Ala Leu Leu Ala Ala Gly Cys Ala Leu Gly Leu Arg Leu
            20                  25                  30

Gly Arg Gly Gln Gly Ala Ala Asp Arg Gly Ala Leu Ile Trp Leu Cys
        35                  40                  45
```

```
Tyr Asp Ala Leu Val His Phe Ala Leu Glu Gly Pro Phe Val Tyr Leu
     50                  55                  60

Ser Leu Val Gly Asn Val Ala Asn Ser Asp Gly Leu Ile Ala Ser Leu
 65                  70                  75                  80

Trp Lys Glu Tyr Gly Lys Ala Asp Ala Arg Trp Val Tyr Phe Asp Pro
                 85                  90                  95

Thr Ile Val Ser Val Glu Ile Leu Thr Val Ala Leu Asp Gly Ser Leu
            100                 105                 110

Ala Leu Phe Leu Ile Tyr Ala Ile Val Lys Glu Lys Tyr Tyr Arg His
        115                 120                 125

Phe Leu Gln Ile Thr Leu Cys Val Cys Glu Leu Tyr Gly Cys Trp Met
    130                 135                 140

Thr Phe Leu Pro Glu Trp Leu Thr Arg Ser Pro Asn Leu Asn Thr Ser
145                 150                 155                 160

Asn Trp Leu Tyr Cys Trp Leu Tyr Leu Phe Phe Phe Asn Gly Val Trp
                165                 170                 175

Val Leu Ile Pro Gly Leu Leu Leu Trp Gln Ser Trp Leu Glu Leu Lys
            180                 185                 190

Lys Met His Gln Lys Glu Thr Ser Ser Val Lys Lys Phe Gln
        195                 200                 205
```

<210> 123
<211> 55
<212> PRT
<213> Homo sapiens

<400> 123

```
Met Asn Gln Ile Phe Leu Phe Gly Gln Asn Val Ile His Ser Ser Leu
  1               5                  10                  15

His Phe Val Phe Val Leu Leu Leu Leu Asn Asn Leu Phe Gln Ile Gly
             20                  25                  30

Phe Lys Ala Thr Ser Phe Arg Cys Ile Val Val Gln Leu Asn Gly Asp
         35                  40                  45

Ile Gly Lys Arg Glu Gln Ile
     50                  55
```

<210> 124
<211> 202
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)

<223> Xaa equals any amino acid

<400> 124

```
Ser Pro Ser Val Arg Ala Gly Ala Gly Pro Glu Asp Ala Leu Lys Gln
  1               5                  10                  15

Arg Ala Glu Gln Ser Ile Xaa Glu Glu Pro Gly Trp Glu Glu Glu Glu
             20                  25                  30

Glu Glu Leu Met Gly Ile Ser Pro Ile Ser Pro Lys Glu Ala Lys Val
         35                  40                  45

Pro Val Ala Lys Ile Ser Thr Phe Pro Glu Gly Glu Pro Gly Pro Gln
     50                  55                  60

Ser Pro Cys Glu Glu Asn Leu Val Thr Ser Val Glu Pro Pro Ala Glu
 65                  70                  75                  80

Val Thr Pro Ser Glu Ser Ser Glu Ser Ile Ser Leu Val Thr Gln Ile
                 85                  90                  95

Ala Asn Pro Ala Thr Ala Pro Glu Ala Arg Val Leu Pro Lys Asp Leu
            100                 105                 110

Ser Gln Lys Leu Leu Glu Ala Ser Leu Glu Glu Gln Gly Leu Ala Val
        115                 120                 125

Asp Val Gly Glu Thr Gly Pro Ser Pro Pro Ile His Ser Lys Pro Leu
    130                 135                 140

Thr Pro Ala Gly His Arg Phe Trp Trp Leu Pro Ala Gly Pro Leu Gly
145                 150                 155                 160

Pro Leu Leu Thr Pro Gly Lys Gly Leu Ser Lys Ser Arg Pro Glu Thr
                165                 170                 175

Leu Thr Cys Ala Asn Asn Arg Met Thr Gln Gly Arg Gly Asn Leu Ser
            180                 185                 190

Ser Ser Pro Glu Glu Pro Val Phe Phe Cys
        195                 200
```

<210> 125
<211> 24
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any amino acid

<400> 125

```
Gly Pro Glu Asp Ala Leu Lys Gln Arg Ala Glu Gln Ser Ile Xaa Glu
  1               5                  10                  15

Glu Pro Gly Trp Glu Glu Glu Glu
             20
```

<210> 126
<211> 24
<212> PRT
<213> Homo sapiens

<400> 126
Ala Lys Val Pro Val Ala Lys Ile Ser Thr Phe Pro Glu Gly Glu Pro
1 5 10 15

Gly Pro Gln Ser Pro Cys Glu Glu
20

<210> 127
<211> 23
<212> PRT
<213> Homo sapiens

<400> 127
Pro Ala Glu Val Thr Pro Ser Glu Ser Ser Glu Ser Ile Ser Leu Val
1 5 10 15

Thr Gln Ile Ala Asn Pro Ala
20

<210> 128
<211> 26
<212> PRT
<213> Homo sapiens

<400> 128
Leu Ser Gln Lys Leu Leu Glu Ala Ser Leu Glu Glu Gln Gly Leu Ala
1 5 10 15

Val Asp Val Gly Glu Thr Gly Pro Ser Pro
20 25

<210> 129
<211> 27
<212> PRT
<213> Homo sapiens

<400> 129
Trp Leu Pro Ala Gly Pro Leu Gly Pro Leu Leu Thr Pro Gly Lys Gly
1 5 10 15

Leu Ser Lys Ser Arg Pro Glu Thr Leu Thr Cys
20 25

<210> 130
<211> 229
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (117)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (195)
<223> Xaa equals any amino acid

<400> 130

```
Ile Gly Gly Glu Gly Pro Val Ser Pro Thr Ser Thr Ala Arg Pro Cys
  1               5                  10                  15

Ser Ser Lys Asp Ala Ser Ser Ser Phe Trp Asp Arg Ser Leu Gly Ser
             20                  25                  30

Thr Arg Ala Ser Gly Ala Val Ala Gly Leu Ala Ile Cys Val Thr Arg
         35                  40                  45

Glu Met Leu Ser Leu Leu Ser Asp Gly Val Thr Ser Ala Gly Gly Ser
     50                  55                  60

Thr Glu Val Thr Arg Phe Ser Ser Gln Gly Leu Trp Gly Pro Gly Ser
 65                  70                  75                  80

Pro Ser Gly Asn Val Glu Ile Leu Ala Thr Gly Thr Phe Ala Ser Phe
                 85                  90                  95

Gly Asp Met Gly Glu Met Pro Met Ser Ser Ser Ser Ser Ser Ser Gln
            100                 105                 110

Pro Gly Ser Ser Xaa Met Leu Cys Ser Ala Arg Cys Phe Arg Ala Ser
        115                 120                 125

Ser Gly Pro Ala Pro Ala Leu Thr Asp Gly Leu Tyr Arg Asn Thr Asp
    130                 135                 140

Ala Arg Ile Leu Asn Gly Lys Gln Leu Leu Glu Pro Ser Trp Cys Arg
145                 150                 155                 160

Gly Pro Gly Trp Arg Gly Cys Leu Gln Gly Ala Leu Arg Ser Pro Pro
                165                 170                 175

Ser Ser Pro Pro Ser Arg Thr Gly Lys Ala Arg Arg Gln Thr Ile Pro
            180                 185                 190

Gly Ala Xaa Leu Val His Tyr Ser Arg Leu Leu Gly Pro Thr Ala Gly
        195                 200                 205

Tyr Arg Gly Glu Pro Trp Cys His His Arg Ala Gln Leu Cys Gln Thr
    210                 215                 220

Val Cys Pro Ser Gly
225
```

<210> 131

<211> 26
<212> PRT
<213> Homo sapiens

<400> 131
Ala Arg Pro Cys Ser Ser Lys Asp Ala Ser Ser Ser Phe Trp Asp Arg
1 5 10 15

Ser Leu Gly Ser Thr Arg Ala Ser Gly Ala
20 25

<210> 132
<211> 27
<212> PRT
<213> Homo sapiens

<400> 132
Arg Phe Ser Ser Gln Gly Leu Trp Gly Pro Gly Ser Pro Ser Gly Asn
1 5 10 15

Val Glu Ile Leu Ala Thr Gly Thr Phe Ala Ser
20 25

<210> 133
<211> 25
<212> PRT
<213> Homo sapiens

<400> 133
Tyr Arg Asn Thr Asp Ala Arg Ile Leu Asn Gly Lys Gln Leu Leu Glu
1 5 10 15

Pro Ser Trp Cys Arg Gly Pro Gly Trp
20 25

<210> 134
<211> 28
<212> PRT
<213> Homo sapiens

<400> 134
Pro Gly Trp Arg Gly Cys Leu Gln Gly Ala Leu Arg Ser Pro Pro Ser
1 5 10 15

Ser Pro Pro Ser Arg Thr Gly Lys Ala Arg Arg Gln
20 25

<210> 135
<211> 7
<212> PRT
<213> Homo sapiens

<400> 135

```
Gly Gly Arg Gly Gly Arg Gly
  1               5
```

<210> 136
<211> 39
<212> PRT
<213> Homo sapiens

<400> 136

```
Tyr Gln Lys Asn Val Thr Phe Tyr Pro Phe Phe Gly Thr Ile Leu Lys
  1               5                  10                  15

Thr Gly Phe Thr Gly Gly Lys Ser Arg Asn Ser Ala Lys Gly Ser Pro
             20                  25                  30

Pro Ser Ala Arg Pro Lys Gly
         35
```

<210> 137
<211> 161
<212> PRT
<213> Homo sapiens

<400> 137

```
Pro Leu Val Cys Gly Arg Ser Gly Val Phe Ser Ala Ala Pro Thr Pro
  1               5                  10                  15

Ser Arg Ser Pro Pro Pro Asn Gln Arg Arg Thr Gly Pro Arg Leu Pro
             20                  25                  30

Arg His Ser Arg Thr Gly Ser Leu Leu Ala Gly Ala Gly Pro Gly Leu
         35                  40                  45

Ala Ala Leu Val Thr Met Ser Glu Thr Ser Phe Asn Leu Ile Ser Glu
     50                  55                  60

Lys Cys Asp Ile Leu Ser Ile Leu Arg Asp His Pro Glu Asn Arg Ile
 65                  70                  75                  80

Tyr Arg Arg Lys Ile Glu Glu Leu Ser Lys Arg Phe Thr Ala Ile Arg
                 85                  90                  95

Lys Thr Lys Gly Asp Gly Asn Cys Phe Tyr Arg Ala Leu Gly Tyr Ser
            100                 105                 110

Tyr Leu Glu Ser Leu Leu Gly Lys Ser Arg Glu Ile Phe Lys Phe Lys
        115                 120                 125

Glu Arg Val Leu Gln Thr Pro Asn Asp Leu Leu Ala Ala Gly Phe Glu
    130                 135                 140

Glu His Lys Phe Arg Asn Phe Phe Asn Ala Phe Thr Val Trp Trp Asn
145                 150                 155                 160

Trp
```

<210> 138
<211> 23
<212> PRT
<213> Homo sapiens

<400> 138
Val Phe Ser Ala Ala Pro Thr Pro Ser Arg Ser Pro Pro Pro Asn Gln
1 5 10 15

Arg Arg Thr Gly Pro Arg Leu
20

<210> 139
<211> 29
<212> PRT
<213> Homo sapiens

<400> 139
Leu Ala Ala Leu Val Thr Met Ser Glu Thr Ser Phe Asn Leu Ile Ser
1 5 10 15

Glu Lys Cys Asp Ile Leu Ser Ile Leu Arg Asp His Pro
20 25

<210> 140
<211> 31
<212> PRT
<213> Homo sapiens

<400> 140
Glu Glu Leu Ser Lys Arg Phe Thr Ala Ile Arg Lys Thr Lys Gly Asp
1 5 10 15

Gly Asn Cys Phe Tyr Arg Ala Leu Gly Tyr Ser Tyr Leu Glu Ser
20 25 30

<210> 141
<211> 20
<212> PRT
<213> Homo sapiens

<400> 141
Asn Asp Leu Leu Ala Ala Gly Phe Glu Glu His Lys Phe Arg Asn Phe
1 5 10 15

Phe Asn Ala Phe
20

<210> 142
<211> 23
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any amino acid

<400> 142
Arg Pro Leu Val Leu Leu Arg Xaa Arg Glu Ser Ala Phe Leu Glu Leu
1 5 10 15

Leu Ala Lys Cys Glu Lys Leu
20

<210> 143
<211> 8
<212> PRT
<213> Homo sapiens

<400> 143
Phe Gly Tyr Thr Val Ile Asn Thr
1 5

<210> 144
<211> 29
<212> PRT
<213> Homo sapiens

<400> 144
Glu Phe Gly Thr Ser Ala Leu Val Ser Thr Cys Ser Pro Ile Pro Ser
1 5 10 15

Pro Asp Phe Ser Leu Leu Leu Thr Pro Ser Lys Ala Ile
20 25

<210> 145
<211> 151
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any amino acid

<400> 145
Arg Val Val His Arg Phe Phe Lys Ser Ser Ala Phe Trp Pro Xaa Glu
1 5 10 15

Val Lys Gln Pro Arg Gly Gly Pro Lys Thr Gly Ser Arg Lys Glu Gly
20 25 30

Ala Gly Ser Arg Ala Pro Gln Pro Val Val Arg Ser Phe Cys Gly Ser
35 40 45

Val Gly Ala Glu Gly Arg Met Glu Lys Leu Arg Leu Leu Gly Leu Arg
50 55 60

Tyr Gln Glu Tyr Val Thr Arg His Pro Ala Ala Thr Ala Gln Leu Glu
65 70 75 80

Thr Ala Val Arg Gly Phe Ser Tyr Leu Leu Ala Gly Arg Phe Ala Asp
85 90 95

Ser His Glu Leu Ser Glu Leu Val Tyr Ser Ala Ser Asn Leu Leu Val
100 105 110

Leu Leu Asn Asp Gly Ile Leu Arg Lys Glu Leu Arg Lys Lys Leu Pro
115 120 125

Val Ser Leu Ser Gln Gln Lys Leu Leu Thr Trp Leu Ser Val Leu Glu
130 135 140

Cys Val Glu Val Phe Met Glu
145 150

<210> 146
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (39)
<223> Xaa equals any amino acid

<400> 146
Pro Gly Cys Ile Ala Gly Trp Glu Leu Leu Ser Val Val Gln Gly Pro
1 5 10 15

Gly Pro Arg Pro Pro Pro Arg Pro Arg Pro Arg Lys Xaa His Ser Arg
20 25 30

Ala Gly Cys Gly Leu Glu Xaa Gly Ala Gly Gly Asp
35 40

<210> 147
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any amino acid

<400> 147

Gly Val Thr Pro Trp Gly Gly Gly Leu Gln Arg Xaa Leu Pro Val Ala
1 5 10 15

Thr Trp Cys Leu Trp Glu Leu Val Leu Gly Thr Leu Met Gly Val Cys
20 25 30

Gly Pro Ser Cys Arg Pro Ala Pro Ser Ser Arg Ala Pro Gly Leu Gly
35 40 45

Pro Pro Thr Pro Leu Leu Ser Ser Gly Lys Ser Pro Cys Gly Ser Ser
50 55 60

Pro Gly Ser Arg Ser Gly Ala Met Arg Gly Ala Pro Trp Pro Arg Phe
65 70 75 80

Arg Lys Ala Cys Val Cys Ala Arg Gly Lys Gly Leu His Asp Lys Arg
85 90 95

Thr Arg Phe Asp Leu Asn
100

<210> 148
<211> 34
<212> PRT
<213> Homo sapiens

<400> 148
Ala Thr Trp Cys Leu Trp Glu Leu Val Leu Gly Thr Leu Met Gly Val
1 5 10 15

Cys Gly Pro Ser Cys Arg Pro Ala Pro Ser Ser Arg Ala Pro Gly Leu
20 25 30

Gly Pro

<210> 149
<211> 27
<212> PRT
<213> Homo sapiens

<400> 149
Pro Thr Pro Leu Leu Ser Ser Gly Lys Ser Pro Cys Gly Ser Ser Pro
1 5 10 15

Gly Ser Arg Ser Gly Ala Met Arg Gly Ala Pro
20 25

<210> 150
<211> 59
<212> PRT
<213> Homo sapiens

<400> 150
Ala Arg Asp Phe Gly Lys Cys Cys Tyr Val Asn Thr Thr Ile Thr Ile

```
  1               5                  10                  15

Lys Ile Val Tyr Ser Ser Ser Thr Pro Cys Pro Glu Thr Cys Leu Phe
            20                  25                  30

Cys Leu Val Ser Ser Ser Pro His His Gln Pro Leu Ser Thr Asp Ser
        35                  40                  45

Phe Ser Val Cys Ile Val Tyr Ile Ile Ser Arg
    50                  55
```

<210> 151
<211> 31
<212> PRT
<213> Homo sapiens

<400> 151

```
Thr Ile Lys Ile Val Tyr Ser Ser Ser Thr Pro Cys Pro Glu Thr Cys
  1               5                  10                  15

Leu Phe Cys Leu Val Ser Ser Ser Pro His His Gln Pro Leu Ser
            20                  25                  30
```

<210> 152
<211> 48
<212> PRT
<213> Homo sapiens

<400> 152

```
Gly Thr Ser Thr Asn Pro Arg Ile Pro Arg Val His Leu Leu Val Ala
  1               5                  10                  15

Lys Asp Ile Ser Arg Thr Val Ile Ser Leu Val Lys Phe Ile Cys Ser
            20                  25                  30

Cys Ala Arg Phe His Phe Phe Gln Gln Ser Glu Thr Thr Trp Gly Thr
        35                  40                  45
```

<210> 153
<211> 22
<212> PRT
<213> Homo sapiens

<400> 153

```
Leu Val Ala Lys Asp Ile Ser Arg Thr Val Ile Ser Leu Val Lys Phe
  1               5                  10                  15

Ile Cys Ser Cys Ala Arg
            20
```

<210> 154
<211> 9
<212> PRT
<213> Homo sapiens

<400> 154
Leu Ser Pro Pro Arg Gly Ala Cys Arg
1 5

<210> 155
<211> 10
<212> PRT
<213> Homo sapiens

<400> 155
Gly Arg Pro Thr Arg Pro Leu Arg Val Ala
1 5 10

<210> 156
<211> 120
<212> PRT
<213> Homo sapiens

<400> 156
Ala Trp Cys Pro Gln Thr His Thr Thr Ser Cys Leu Met Gly Pro Phe
1 5 10 15

Cys Cys Tyr Ser Pro Leu Pro Gly Asp Met Pro Thr Met Ala Arg Pro
20 25 30

Cys Pro Gln Thr Trp Val Ser Thr His Val Arg Pro Ala Thr Gly Leu
35 40 45

Ala Arg Gln Ser Ala Glu Ala Leu Gly Cys Leu Trp Leu Ser Ser Gly
50 55 60

Arg Ile Ser Arg Ser Ser Leu Gly Thr Trp Trp Leu Trp Trp Val Ser
65 70 75 80

Ser Leu Leu Trp Asn Val Gly Arg Pro Gly Ala Thr Gln Ser Pro Gln
85 90 95

Ser His Gly Gly Lys Met Gly Asn Pro Trp Pro Ser Ser Pro Glu Gly
100 105 110

Thr Gln Cys Pro Gly Gly Pro Cys
115 120

<210> 157
<211> 25
<212> PRT
<213> Homo sapiens

<400> 157
Cys Cys Tyr Ser Pro Leu Pro Gly Asp Met Pro Thr Met Ala Arg Pro

```
  1               5                  10                  15

Cys Pro Gln Thr Trp Val Ser Thr His
             20                  25
```

<210> 158
<211> 18
<212> PRT
<213> Homo sapiens

<400> 158

```
Ala Leu Gly Cys Leu Trp Leu Ser Ser Gly Arg Ile Ser Arg Ser Ser
  1               5                  10                  15

Leu Gly
```

<210> 159
<211> 28
<212> PRT
<213> Homo sapiens

<400> 159

```
Trp Asn Val Gly Arg Pro Gly Ala Thr Gln Ser Pro Gln Ser His Gly
  1               5                  10                  15

Gly Lys Met Gly Asn Pro Trp Pro Ser Ser Pro Glu
             20                  25
```

<210> 160
<211> 121
<212> PRT
<213> Homo sapiens

<400> 160

```
Leu Ser Ala Tyr Arg Thr Leu Asp Asn Thr His Ile His Thr His Lys
  1               5                  10                  15

Asn Ala His Glu Pro Asn Pro Glu Lys Val Pro Ala Gly Pro Pro Pro
             20                  25                  30

Ser Pro Pro Pro Pro Thr Ser Pro Leu Asp Ser Glu Asp Arg Arg Gly
         35                  40                  45

Thr Arg Gly His Leu Gly Arg Pro Ala Gly Ser Pro Pro Thr Pro Pro
     50                  55                  60

Arg Pro Ser His His Thr Pro Ile Ile Thr Leu Tyr Ile Thr Gln Ser
 65                  70                  75                  80

Phe Trp Phe Ser Arg Thr Arg Leu Pro Lys Tyr His Leu Gln Lys Val
                 85                  90                  95

Thr Leu Ala Gly His Tyr Phe Val Tyr Leu Phe Pro Met Gln Lys Lys
            100                 105                 110
```

Asn Glu Asn Glu Lys Arg Gly Ile Pro
115 120

<210> 161
<211> 29
<212> PRT
<213> Homo sapiens

<400> 161
Leu Ser Ala Tyr Arg Thr Leu Asp Asn Thr His Ile His Thr His Lys
1 5 10 15

Asn Ala His Glu Pro Asn Pro Glu Lys Val Pro Ala Gly
20 25

<210> 162
<211> 13
<212> PRT
<213> Homo sapiens

<400> 162
Leu Asp Ser Glu Asp Arg Arg Gly Thr Arg Gly His Leu
1 5 10

<210> 163
<211> 28
<212> PRT
<213> Homo sapiens

<400> 163
Ile Ile Thr Leu Tyr Ile Thr Gln Ser Phe Trp Phe Ser Arg Thr Arg
1 5 10 15

Leu Pro Lys Tyr His Leu Gln Lys Val Thr Leu Ala
20 25

<210> 164
<211> 10
<212> PRT
<213> Homo sapiens

<400> 164
Val Ile Ile Leu Phe Ile Cys Ser Leu Cys
1 5 10

<210> 165
<211> 40
<212> PRT
<213> Homo sapiens

<400> 165
Ile Asp Phe Phe Val Val Val Ser Phe Leu Tyr Phe Thr Asp Ile Thr
1 5 10 15

Arg Ile Val Tyr Ser Pro Ser Ser Phe Leu Leu Thr Ala His Trp Ile
20 25 30

Thr His Thr Tyr Thr Pro Thr Lys
35 40

<210> 166
<211> 40
<212> PRT
<213> Homo sapiens

<400> 166
Ile Asp Phe Phe Val Val Val Ser Phe Leu Tyr Phe Thr Asp Ile Thr
1 5 10 15

Arg Ile Val Tyr Ser Pro Ser Ser Phe Leu Leu Thr Ala His Trp Ile
20 25 30

Thr His Thr Tyr Thr Pro Thr Lys
35 40

<210> 167
<211> 25
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any amino acid

<400> 167
Gly Val Val Ser Arg Gly Phe Xaa Ala Leu Leu Ser Gly Gly Arg Gly
1 5 10 15

Glu Leu Glu Ala Gly Gly Val Ala Ala
20 25

<210> 168
<211> 45
<212> PRT
<213> Homo sapiens

<400> 168
Asp Phe Phe Phe Phe Asn Val Arg Arg Arg Asn Ser Gln Ile Thr Leu
1 5 10 15

Leu Pro Ala Lys Arg Leu Phe Thr Thr Ser Pro Leu Leu Gln Leu Gly
20 25 30

Leu Ser Val Phe Asn Leu Thr Ile Leu Asn Val Arg Lys

35 40 45

<210> 169
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (9)
<223> Xaa equals any amino acid

<400> 169
Cys Ile Asp His Xaa Gly Lys Arg Xaa Leu Thr Val Pro Val Arg Ile
1 5 10 15

Pro Gly Arg Pro Thr Arg Pro Cys Phe Tyr Ser Leu Thr Ile
20 25 30

<210> 170
<211> 123
<212> PRT
<213> Homo sapiens

<400> 170
Val Gln Gln Ser Leu Ser Ile Phe Lys Ser Leu Pro Ser Leu Leu Met
1 5 10 15

Leu Gln Arg Val Phe Ser Cys Thr Tyr Ile Leu Ala Glu Val Phe Gly
20 25 30

Tyr Ile Pro Thr Val Glu Phe Leu Gly Tyr Val Val Pro Ala Ser Ser
35 40 45

Pro Thr Asn Ser Val Gln Met Val Thr Pro Ser Val Cys Met Thr Leu
50 55 60

Ser Val Cys Ala Arg Gly Phe Leu Leu His Ile Ser Ser Gln Thr Phe
65 70 75 80

Phe Phe Phe Phe Asp Arg Val Trp Ala Leu Ser Pro Arg Leu Val Ala
85 90 95

Val Glu Leu Glu Ser Arg His Gly Ile Pro Ala Trp Gly Asn Arg Val
100 105 110

Arg Leu His Pro Pro Pro Arg Glu Lys Pro Asn
115 120

<210> 171

<211> 43
<212> PRT
<213> Homo sapiens

<400> 171
Val Gln Gln Ser Leu Ser Ile Phe Lys Ser Leu Pro Ser Leu Leu Met
1 5 10 15

Leu Gln Arg Val Phe Ser Cys Thr Tyr Ile Leu Ala Glu Val Phe Gly
20 25 30

Tyr Ile Pro Thr Val Glu Phe Leu Gly Tyr Val
35 40

<210> 172
<211> 41
<212> PRT
<213> Homo sapiens

<400> 172
Val Pro Ala Ser Ser Pro Thr Asn Ser Val Gln Met Val Thr Pro Ser
1 5 10 15

Val Cys Met Thr Leu Ser Val Cys Ala Arg Gly Phe Leu Leu His Ile
20 25 30

Ser Ser Gln Thr Phe Phe Phe Phe Phe
35 40

<210> 173
<211> 39
<212> PRT
<213> Homo sapiens

<400> 173
Asp Arg Val Trp Ala Leu Ser Pro Arg Leu Val Ala Val Glu Leu Glu
1 5 10 15

Ser Arg His Gly Ile Pro Ala Trp Gly Asn Arg Val Arg Leu His Pro
20 25 30

Pro Pro Arg Glu Lys Pro Asn
35

<210> 174
<211> 182
<212> PRT
<213> Homo sapiens

<400> 174
Ala Ser Leu Ser Pro Lys Pro Val Ala Gly Leu Gly Asn Gln Gly Gly
1 5 10 15

Leu Arg Arg Gln Arg Glu Ala Glu Gly Pro Ala Gly Arg Met Gly Pro
20 25 30

```
Lys Ala Arg Leu Gly Gly Gln Gln Gln Thr Trp Val Glu Gly Glu Trp
          35                  40                  45

Val Met Gly Arg Ala Cys Ala Gly Trp Ser Pro Ala Gly Asp Gly Arg
      50                  55                  60

Gly His Lys Ala Arg Gln Lys Ala Val Met Ala Ala Glu Arg Ser Thr
 65                  70                  75                  80

Gln Gly Pro Pro Leu Gly His Glu Cys Arg Pro Pro Arg Gly Arg Arg
                 85                  90                  95

Leu Ala Thr Ser Val Gly Pro Arg Cys Pro Ser Ala Gln Cys Pro Arg
            100                 105                 110

Ala Arg Gln Pro Pro Arg Thr Glu Thr Arg Ser Ala Gly Gly Leu Gln
        115                 120                 125

Leu Leu Pro Ile Leu Ser Trp Ala Ala Ser Ser Pro His Leu Ser Lys
    130                 135                 140

Leu Ala Gly Glu Leu Glu Pro Leu Arg Pro Gln Pro His Ile Ile Leu
145                 150                 155                 160

Thr Pro Leu Leu Gly Ala Met Pro Cys Cys Thr Arg Ile Phe Cys Phe
                165                 170                 175

Ser Leu Thr Met Gly Ser
            180
```

<210> 175
<211> 43
<212> PRT
<213> Homo sapiens

<400> 175

```
Ala Ser Leu Ser Pro Lys Pro Val Ala Gly Leu Gly Asn Gln Gly Gly
  1               5                  10                  15

Leu Arg Arg Gln Arg Glu Ala Glu Gly Pro Ala Gly Arg Met Gly Pro
             20                  25                  30

Lys Ala Arg Leu Gly Gly Gln Gln Gln Thr Trp
          35                  40
```

<210> 176
<211> 42
<212> PRT
<213> Homo sapiens

<400> 176

```
Val Glu Gly Glu Trp Val Met Gly Arg Ala Cys Ala Gly Trp Ser Pro
  1               5                  10                  15

Ala Gly Asp Gly Arg Gly His Lys Ala Arg Gln Lys Ala Val Met Ala
             20                  25                  30
```

Ala Glu Arg Ser Thr Gln Gly Pro Pro Leu
35 40

<210> 177
<211> 44
<212> PRT
<213> Homo sapiens

<400> 177
Gly His Glu Cys Arg Pro Pro Arg Gly Arg Arg Leu Ala Thr Ser Val
1 5 10 15

Gly Pro Arg Cys Pro Ser Ala Gln Cys Pro Arg Ala Arg Gln Pro Pro
20 25 30

Arg Thr Glu Thr Arg Ser Ala Gly Gly Leu Gln Leu
35 40

<210> 178
<211> 53
<212> PRT
<213> Homo sapiens

<400> 178
Leu Pro Ile Leu Ser Trp Ala Ala Ser Ser Pro His Leu Ser Lys Leu
1 5 10 15

Ala Gly Glu Leu Glu Pro Leu Arg Pro Gln Pro His Ile Ile Leu Thr
20 25 30

Pro Leu Leu Gly Ala Met Pro Cys Cys Thr Arg Ile Phe Cys Phe Ser
35 40 45

Leu Thr Met Gly Ser
50

<210> 179
<211> 39
<212> PRT
<213> Homo sapiens

<400> 179
Ile Arg His Ser Leu Pro His Leu Leu Val Lys Val Ile Thr Leu Thr
1 5 10 15

Ser Val Lys Cys Asn Pro Ile Met Asn Ile Ala Arg Val Ile Tyr Cys
20 25 30

Gln Val Arg Asn Arg Leu Val
35

<210> 180

<211> 97
<212> PRT
<213> Homo sapiens

<400> 180
Phe Leu Pro Leu Pro Gln Thr Ala His Val Ile Ala Ser Phe Leu Ser
1 5 10 15

Phe Phe Ser Phe Cys Leu Ser Phe Phe Leu Ser Ser Lys Ala Phe Leu
20 25 30

Leu Leu Leu Ser Phe Ser Lys Phe Phe Phe Ile Leu Phe Phe Ser Phe
35 40 45

Cys Cys Leu Lys Phe Ser His Leu Ala Ser Leu Ser Leu Val Val Ser
50 55 60

Arg Gly Val Pro Trp Thr Arg Lys His Gly Gly Ser Leu Ala Glu Trp
65 70 75 80

Val Phe Gly Ala Glu Thr Ser Arg Gly Pro Pro Ser Ser Asp Leu Ile
85 90 95

Asp

<210> 181
<211> 103
<212> PRT
<213> Homo sapiens

<400> 181
Leu Leu Leu Phe Tyr Leu Ser Phe His Phe Ala Ser His Phe Ser Ser
1 5 10 15

Leu Gln Arg Pro Phe Cys Tyr Phe Cys Leu Phe Leu Ser Phe Ser Leu
20 25 30

Ser Cys Ser Phe Leu Ser Val Val Ser Asn Ser His Ile Trp Pro Val
35 40 45

Phe Leu Leu Ser Ser Pro Gly Val Tyr Leu Gly Pro Gly Asn Thr Glu
50 55 60

Gly Ala Trp Leu Ser Gly Phe Ser Val Pro Lys Pro Pro Glu Gly Leu
65 70 75 80

Leu Pro Val Ile Ser Leu Thr Asp Leu Glu Thr Ala Ser Arg Ser Val
85 90 95

Thr Pro Ala Val Val Pro Ser
100

<210> 182
<211> 54
<212> PRT
<213> Homo sapiens

<400> 182
Phe Phe Ile Gly Leu Glu Thr Arg Ala Asn Ser Ile Met Phe Ser Lys
1 5 10 15

Glu Thr Asp Leu Ser Cys Trp Ile Arg Gly Thr Asn Pro Thr Tyr Met
20 25 30

Ile Phe Phe Leu Phe Leu Ser Cys Ser Tyr Gly Thr Val Leu Phe Gly
35 40 45

Thr Phe Ala Thr Arg Gly
50

<210> 183
<211> 10
<212> PRT
<213> Homo sapiens

<400> 183
Pro Glu Gly Glu Cys Cys Pro Val Cys Pro
1 5 10

<210> 184
<211> 10
<212> PRT
<213> Homo sapiens

<400> 184
Pro Glu Gly Glu Cys Cys Pro Val Cys Pro
1 5 10

<210> 185
<211> 49
<212> PRT
<213> Homo sapiens

<400> 185
Ile Leu Phe Asn Ile Pro Phe Cys Pro Phe Phe Val Phe Lys Glu Ser
1 5 10 15

Ser Asp Phe Val Ser Phe Ser Ala Gly Asp Leu Asn Asp Thr Lys Gln
20 25 30

Ser Leu Leu Ser Leu Asp Leu Gln Lys Leu Ala Gly Gly Lys Lys Ser
35 40 45

Asn

<210> 186
<211> 72
<212> PRT

<213> Homo sapiens

<400> 186
Arg Ala Ala Ala Leu Ala Cys Ser Cys Pro Thr Gly Ile Glu Trp Arg
1 5 10 15

Glu Leu Gln Lys Leu Ser Ile Pro Lys Ala Val Ser Val Val Glu Ala
20 25 30

Asp Trp Ile Phe Ala Leu Pro Leu Thr Pro Cys Pro Ser Leu Arg Glu
35 40 45

Gly Ser Tyr Ala Arg Thr Pro Thr Ser Gly Thr Arg Val Ala Cys Ala
50 55 60

Thr Ser Phe Asp Thr Glu Asn Phe
65 70

<210> 187
<211> 21
<212> PRT
<213> Homo sapiens

<400> 187
Ser Arg Leu Asp Phe Cys Ser Ala Pro Asp Pro Leu Ser Leu Phe Glu
1 5 10 15

Gly Gly Glu Leu Cys
20

<210> 188
<211> 68
<212> PRT
<213> Homo sapiens

<400> 188
Ile Ser Tyr Leu Val Lys Lys Gly Thr Ala Thr Glu Ser Ser Arg Glu
1 5 10 15

Ile Pro Met Ser Thr Leu Pro Arg Arg Asn Met Glu Ser Ile Gly Leu
20 25 30

Gly Met Ala Arg Thr Gly Gly Met Val Val Ile Thr Val Leu Leu Ser
35 40 45

Val Ala Met Phe Leu Leu Val Leu Gly Phe Ile Ile Ala Leu Ala Leu
50 55 60

Gly Ser Arg Lys
65

<210> 189
<211> 24
<212> PRT
<213> Homo sapiens

<400> 189
Met Ala Arg Thr Gly Gly Met Val Val Ile Thr Val Leu Leu Ser Val
1 5 10 15

Ala Met Phe Leu Leu Val Leu Gly
20

<210> 190
<211> 25
<212> PRT
<213> Homo sapiens

<400> 190
Asn Met Glu Ser Ile Gly Leu Gly Met Ala Arg Thr Gly Gly Met Val
1 5 10 15

Val Ile Thr Val Leu Leu Ser Val Ala
20 25

<210> 191
<211> 42
<212> PRT
<213> Homo sapiens

<400> 191
His Glu Ser Ile Ser Tyr Leu Val Lys Lys Gly Thr Ala Thr Glu Ser
1 5 10 15

Ser Arg Glu Ile Pro Met Ser Thr Leu Pro Arg Arg Asn Met Glu Ser
20 25 30

Ile Gly Leu Gly Met Ala Arg Thr Gly Gly
35 40

<210> 192
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (62)
<223> Xaa equals any amino acid

<400> 192
Thr Ala Asp Glu Leu Gly Cys Gln Asp Met Asn Cys Ile Arg Gln Ala
1 5 10 15

His His Val Ala Leu Leu Arg Ser Gly Gly Gly Ala Asp Ala Leu Val

```
            20                  25                  30

Val Leu Leu Ser Gly Leu Val Leu Leu Val Thr Gly Leu Thr Leu Ala
         35                  40                  45

Gly Leu Ala Xaa Ala Pro Ala Pro Ala Arg Pro Leu Ala Xaa
     50                  55                  60
```

<210> 193
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any amino acid

<400> 193

```
Met Ser Glu Gln Glu Ala Gln Ala Pro Gly Gly Arg Gly Leu Pro Pro
  1               5                  10                  15

Asp Met Leu Ala Glu Gln Val Glu Leu Trp Trp Ser Gln Gln Pro Arg
             20                  25                  30

Arg Ser Ala Leu Cys Phe Val Val Ala Val Gly Leu Val Ala Gly Cys
         35                  40                  45

Gly Ala Gly Gly Val Ala Leu Leu Ser Thr Thr Ser Ser Arg Ser Xaa
     50                  55                  60

Glu Trp Arg Leu Ala Thr Gly Thr Val Leu Cys Leu Leu Ala Leu Leu
 65                  70                  75                  80

Val Leu Val Lys Gln Leu Met Ser Ser Ala Val Gln Asp Met Asn Cys
                 85                  90                  95

Ile Arg Gln Ala His His Val Ala Leu Leu Arg Ser Gly Gly Gly Ala
            100                 105                 110

Asp Ala Leu Val Val Leu Leu Ser Gly Leu Val Leu Leu Val Thr Gly
        115                 120                 125

Leu Thr Leu Ala Gly Leu Ala Ala Ala Pro Ala Pro Ala Arg Pro Leu
    130                 135                 140

Ala Ala
145
```

<210> 194
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)

<223> Xaa equals any amino acid

<400> 194
Val Ala Ala Leu Phe Asp Val Pro Val Leu Arg Ser Arg Gly Gly Asp
1 5 10 15

Cys Ala Ser Asp Gly Arg Arg Gly Arg Xaa Thr
20 25

<210> 195
<211> 44
<212> PRT
<213> Homo sapiens

<400> 195
Glu Gly Arg Glu Ala Gly Ser Gly Leu Ser Val Asp Ser Arg Asp Lys
1 5 10 15

Gly His Glu Gly Arg Gly Leu Gly Pro Phe Arg Ile Pro Gln Asp Ser
20 25 30

Gln Val Gln Leu Cys Gln Lys Gly Thr Phe His Val
35 40

<210> 196
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)...(5)
<223> Xaa equals any amino acid

<400> 196
Xaa Xaa Xaa Xaa Xaa Asn His Pro Val Ser Tyr Phe Leu His Asn Asn
1 5 10 15

Pro Ala Phe Pro Ile Asn Leu His Ile Phe Pro Gln Gln Leu Cys Ser
20 25 30

Val Ile Pro Thr Trp Glu Lys Ser Gln Gly
35 40

<210> 197
<211> 190
<212> PRT
<213> Homo sapiens

<400> 197
Ser Gly Gly Ala Lys Pro Pro Ala Lys Met Cys Lys Gly Leu Ala Ala
1 5 10 15

Leu Pro His Ser Cys Leu Glu Arg Ala Lys Glu Ile Lys Ile Lys Leu
20 25 30

Gly Ile Leu Leu Gln Lys Pro Asp Ser Val Gly Asp Leu Val Ile Pro
35 40 45

Tyr Asn Glu Lys Pro Glu Lys Pro Ala Lys Thr Gln Lys Thr Ser Leu
50 55 60

Asp Glu Ala Leu Gln Trp Arg Asp Ser Leu Asp Lys Leu Leu Gln Asn
65 70 75 80

Asn Tyr Gly Leu Ala Ser Phe Lys Ser Phe Leu Lys Ser Glu Phe Ser
85 90 95

Glu Glu Asn Leu Glu Phe Trp Ile Ala Cys Glu Asp Tyr Lys Lys Ile
100 105 110

Lys Ser Pro Ala Lys Met Ala Glu Lys Ala Lys Gln Ile Tyr Glu Glu
115 120 125

Phe Ile Gln Thr Glu Ala Pro Lys Glu Val Asn Ile Asp His Phe Thr
130 135 140

Lys Asp Ile Thr Met Lys Asn Leu Val Glu Pro Ser Leu Ser Ser Phe
145 150 155 160

Asp Met Ala Gln Lys Arg Ile His Ala Leu Met Glu Lys Asp Ser Leu
165 170 175

Pro Arg Phe Val Arg Ser Glu Phe Tyr Gln Glu Leu Ile Lys
180 185 190

<210> 198
<211> 31
<212> PRT
<213> Homo sapiens

<400> 198
Ala Leu Pro His Ser Cys Leu Glu Arg Ala Lys Glu Ile Lys Ile Lys
1 5 10 15

Leu Gly Ile Leu Leu Gln Lys Pro Asp Ser Val Gly Asp Leu Val
20 25 30

<210> 199
<211> 25
<212> PRT
<213> Homo sapiens

<400> 199
Asp Ser Leu Asp Lys Leu Leu Gln Asn Asn Tyr Gly Leu Ala Ser Phe
1 5 10 15

Lys Ser Phe Leu Lys Ser Glu Phe Ser
20 25

<210> 200
<211> 29
<212> PRT
<213> Homo sapiens

<400> 200
Glu Asn Leu Glu Phe Trp Ile Ala Cys Glu Asp Tyr Lys Lys Ile Lys
1 5 10 15

Ser Pro Ala Lys Met Ala Glu Lys Ala Lys Gln Ile Tyr
20 25

<210> 201
<211> 28
<212> PRT
<213> Homo sapiens

<400> 201
Asp Ile Thr Met Lys Asn Leu Val Glu Pro Ser Leu Ser Ser Phe Asp
1 5 10 15

Met Ala Gln Lys Arg Ile His Ala Leu Met Glu Lys
20 25

<210> 202
<211> 16
<212> PRT
<213> Homo sapiens

<400> 202
Ile Arg His Glu Asn Phe Glu Arg Ser Ser Thr Val Asp Lys Lys Leu
1 5 10 15

<210> 203
<211> 16
<212> PRT
<213> Homo sapiens

<400> 203
Asn Ser Ile Thr Tyr Tyr Arg Glu Thr Phe Trp Glu Arg Lys Ser Gln
1 5 10 15

<210> 204
<211> 32
<212> PRT

<213> Homo sapiens

<400> 204
Ile Trp Gln Thr Ser Leu Leu Ser Tyr Phe Gln Lys Leu Pro Gln Leu
1 5 10 15

Pro Gln Pro Ser Ala Ala Thr Thr Leu Ile Arg Gln Gln Pro Ala Thr
20 25 30

<210> 205
<211> 19
<212> PRT
<213> Homo sapiens

<400> 205
Lys Gln Gly Ser Leu Pro Ala Lys Arg Arg Lys Leu Ser Glu Gly Ser
1 5 10 15

Gly Val Leu

<210> 206
<211> 51
<212> PRT
<213> Homo sapiens

<400> 206
Val Lys Ser Thr Leu Gly Arg Leu Ile Val Leu Ser Ser Ala Leu Asn
1 5 10 15

Lys Ile Phe Pro Leu Thr Leu Ala Ser Ser Val Leu Tyr Ser Gly Arg
20 25 30

Thr Ser Pro Pro Arg Glu Ser Phe Val Ser Gln Leu Asn Cys Cys Phe
35 40 45

Ser Asp Lys
50